

1909.

F

1909



Tabor

Mary

Andrew

Elizabeth

Mary

John

John

John

John

John

12 1/2

Novell

If this book falls
into your hands
return it to

B. Shinnick
Dona City
Dona

who will see to it that
you are recompensed
for your trouble

398
312

April 9-1909

Left Dona City at
6:35 PM, by way of Elmore,
Col. Jr. to Fairbairn
Reached Malvern at 6:57 AM

& found young O'Bladen of
Malvern (livestockman) waiting
with a team. Noted
Drove to Malvern. Noted
that territory is typical
rolling Kansan.

Noted a number of casts
(see map) and in all
cases Kansan was in
evidence, - blue with
iron tubes. Also noted
some shells but did not
stop to collect, as Prof.
Calvin was waiting.

From Prof. Calum at
Zabon, & we started in
a little while for the
buff country west.
We drove 1 mi. north & then
west. Passed hail-broken
trees, & dead hills out,
brooks, boxelder, crabs, elms,
etc. Stopped at a long narrow
deep canon to river. This
is very high, mountain like & is
still pretty well timbered.
The creek next to road has
usual deep narrow gully,
& road runs along edge
most of way.
From Mission Pass only Mores
bluffs (see map).

3
At (a) in Rader Trip. On hill
the yellow Mission appears 3-5 ft
thick. Below it older (blue) loam
is visible. E of this blue loam
with tubes everywhere. Only a
foot to four of heavier yellow
clay.

At b. at least 10 ft of
yellow (Mission loam) exposed in
cut at foot of hill.

At c on W side a series
of cuts many feet exposure,
with shells (see box c)
This is typical yellow Mission
loam (see sample).

At d - in heavier yellow
loam (see) from loam - 6 ft
above road. Also a few shells - see

Box, low & sample

June 29 & 30 Ranges &

25 & 36 from many trees

and dead, shaggy & barked

by a great hail storm

of 1/2 in. or so

It is just above forms

from which some teeth
were taken. (Gladwin)

These were in dark

rock (Aptinian) above

ground

Aptinian gravel shows

in bottom of creek bed

Lidar occurs here - not

living, but logs.

Boulders appear in creek
here & there (not many)

A little blue loam with
iron tubes, shows under yellow
loam at Igou's Point. In

bank just below road &

everywhere in creek valley

the dark silt shows.

On this loam (teeth) were

found & red above

In loam cut just below (d)

a little piece loam below

(see box.)

These are from yellow loam.

At e a black silt with

shells appears near base

of hill (nearly on level with

bottom) see shell. This

is under loam

(f) is in bluff in crescent

of bluffs. It is 95 ft. above

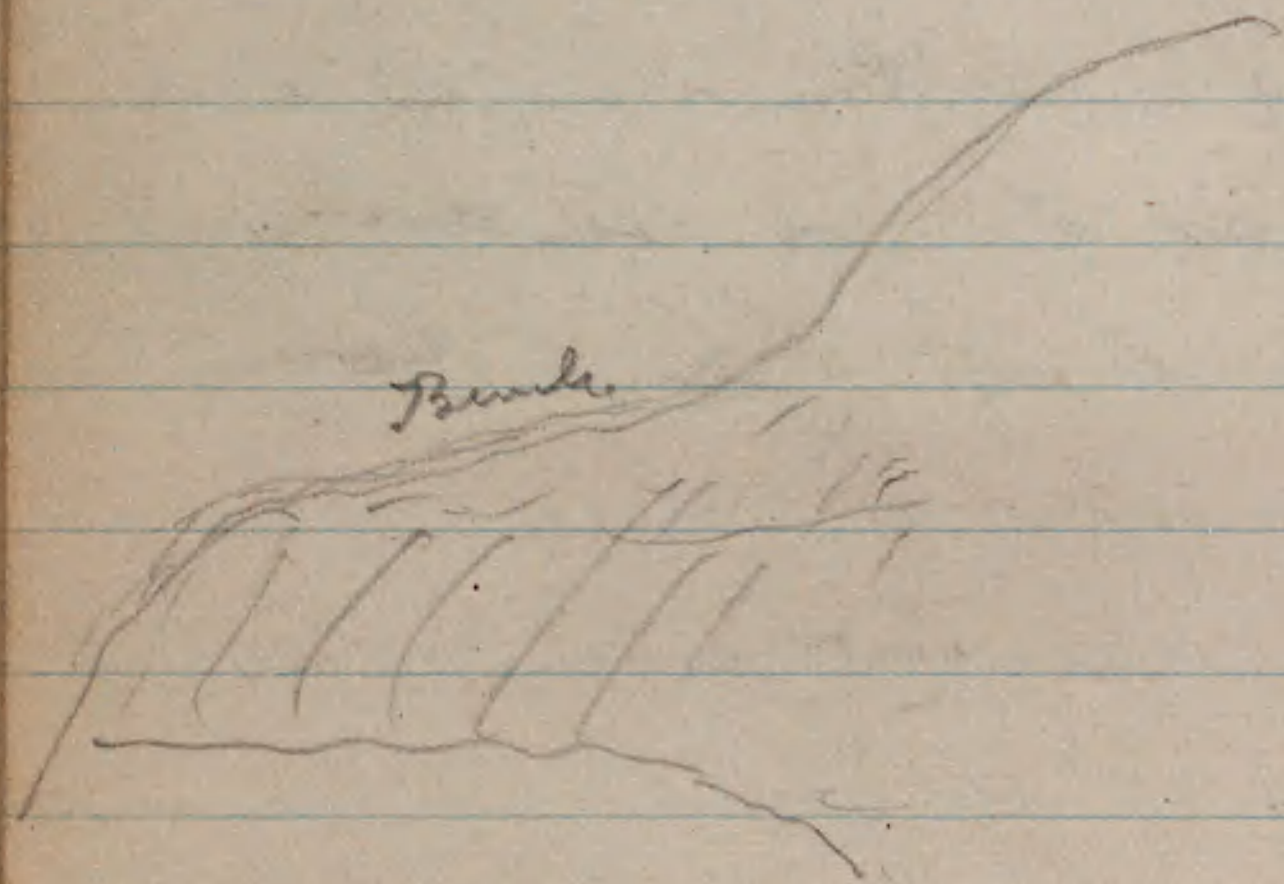
Values

all along this Crescent
there is a bench, probably
60-70 ft. above valley, &
above that rise higher hills of
loam.

This terrace is full of apr.
& Kauri with loam, (see 2)

Prof. C. took pictures looking N, - 1, 2, 3.

Just about on Co. line.



9
In this Crescent the bluffs are
wooded on face & in ravines,
there has evidently been
mixing in (f.) The lime
modules are large & in irregular
lines, the materials blend
fairly, & there are some shells
even in lower part, mostly
Cantharus *Succinea obliqua*.

Between the valley there is a
cut on the side of road showing
several feet of blue loam
with iron tubes

Prof. C. took photos
of canon.

(on return)

near center of sec. 25 - Lyons
Twp. Mills co.

A group of trees along
creek is almost killed by
the hail storm of $\frac{1}{2}$
yr ago.

There are box elders,

elm, a walnut,

Prof C. took picture

I also saw an orchard battered
in same way.

Even bur oak shows it,
though softer trees like box elder
show it more.

Sumacs etc. along road
are also partly stripped,

Hail storm in June, 1908 "

The Missouri river loess
shows contours as shown on
map. The black lines
show limit (on map.)

The difference between the
two areas is marked,

The Missouri loess topography
is rough, with sharp ridges,
& the soils are yellow.

The older area is more
rounded in topography & has
broken, and the soil is
darker. The lateral
difference is strikingly
noticeable.

Reached Zabor in good
time for 3:30 PM train, &
took it. Prof. Calver
directed to ticket reading

"good for one first class party"
wasn't first class. We
had an old rattlesnake
coach.

The train stopped at
nearly all the road
crossings.

The country along
R.R. to Malvern is
mostly rolling Kansas,
but a part is a
plateau.

Few cuts show, and
only one looked at
all inviting.
Reached Malvern ^{4:25 pm} after
lunch I started down the
Wabash, S.E. Went to
1st cut, - a big one.

Big Wabash cut. S.E. of
Malvern

5A { ~~red~~ sub. more abundant
in upper part.
5A { Blue loam with
iron tubes & shells.
Brown loam.
6A { Red underlay
blue extremely
above.
Red - Last shell.

7A { Blue & white
Very red
much like 1
with blue streaks.
Blue - no white

8A { This becomes ~~the~~ much
below & evidently I was
near ^(or in) Loveland.

The top stuff goes up ³² ~~4~~ ~~ft.~~
 ft. more. (See fossils, nodules
 & blue loam from 4 ft. from
 top.

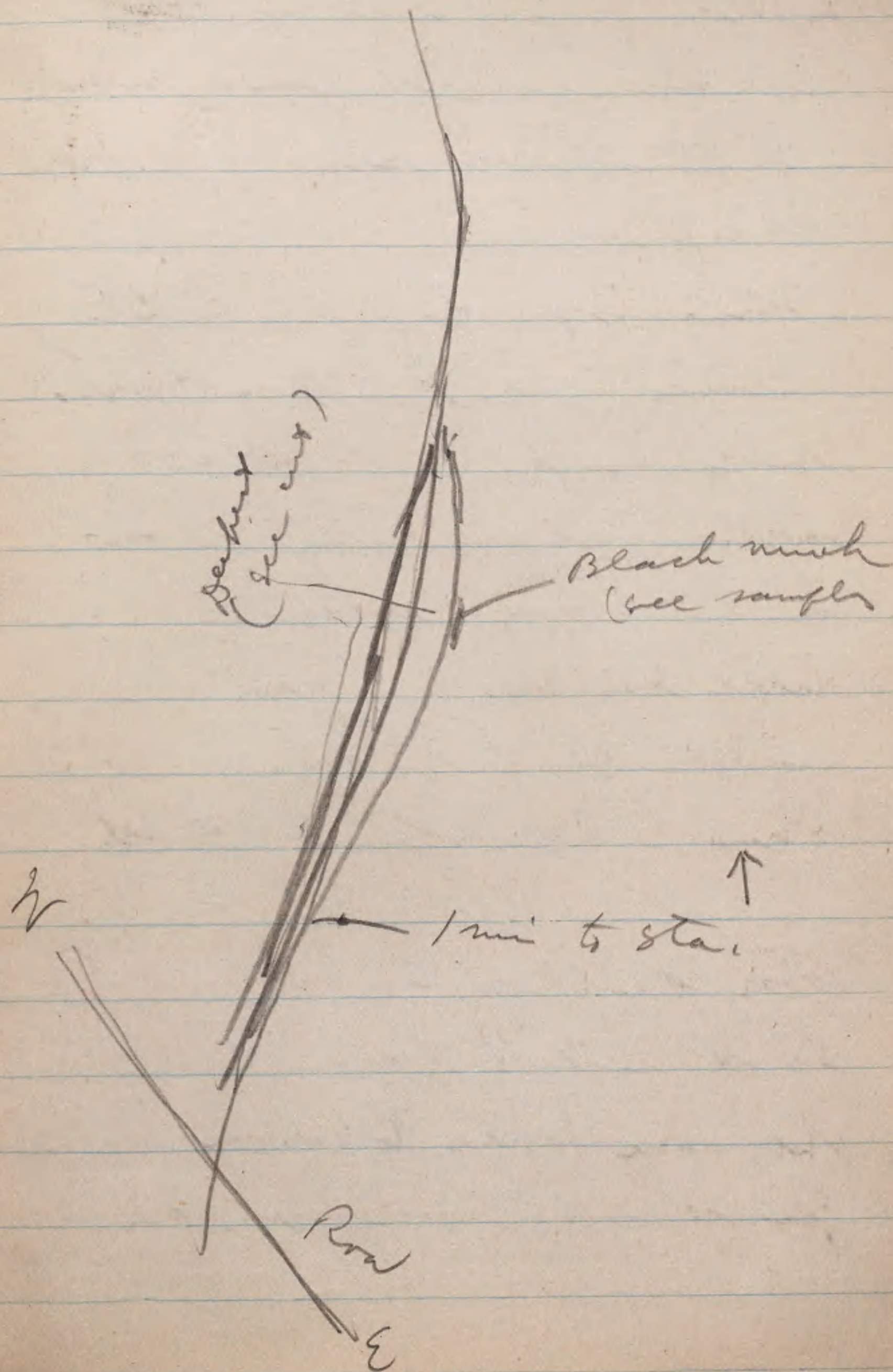
This top stuff is lighter,
 (lower) redish & runs
 into soil. It grades
 rather abruptly below
 into blue loam.

Shells are mostly from
 within 5 ft of top.

Fossils at about 10 ft.

Total depth of big and
 about 32 ft.

The one mile to station
 point is toward S.E. end



Toward N. end of E. end
a black soil ^(see sample) appears
under blue (mucky)
loam + after 6 or 8 in
becomes very much
tougher + not so black.
(see sample)
The loam seems to be right
on thin, with rather
sharp line.
The black band rises
2 ft above track +
shows 2 ft below (in
gutter)
Just above muck band
loam is pure blue for a
foot or more + then
red, etc. as before.

17
This heavy muck

April 11 - Glenwood
The wind was so strong that
I could scarcely walk against
it, and the sand & dust
cut my face.

It was from the SW, &
was terrific. Later in the
day it subsided somewhat,
but blew well all
day, & the valley was
clouded with dust.

Early in the day I could
see clouds of dust rising
from the Cars, & fields, -
later all was hazy.

I followed track from
Glenwood to Pacific
Junction.

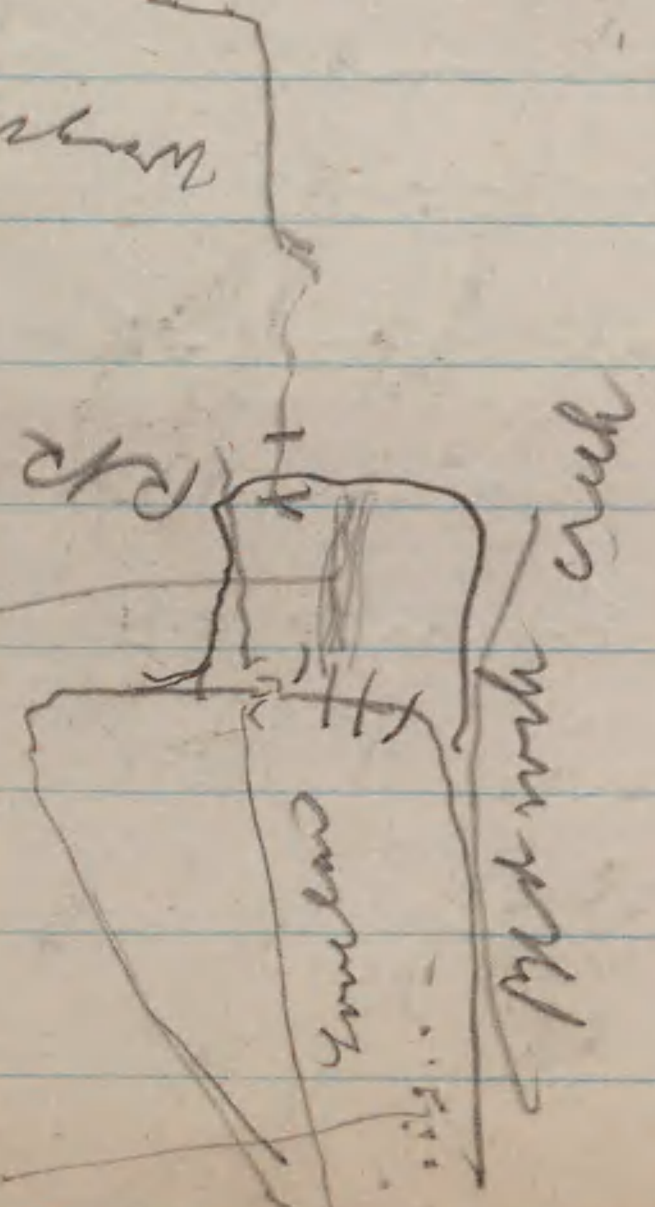
19
In last big cut on S. side
of track, going W., the
heavy stuff below (at U.
end in gutter) is red
& blue in streaks (like
Malvern Wash cut, but
tougher) & is probably
Loveland. Though it may
be much lower part
of blue loess.

There are no fossils in
this lower part & it
is sometimes difficult
to determine whether it
is a heavy loess or Loveland.

at least 12 ft of (above part drifts?)
 levelled + (roughly) 2 ft thick.

Part of gravel, (mostly) a thin layer of sand.

I consider the levelled to within a foot or two of the rock.



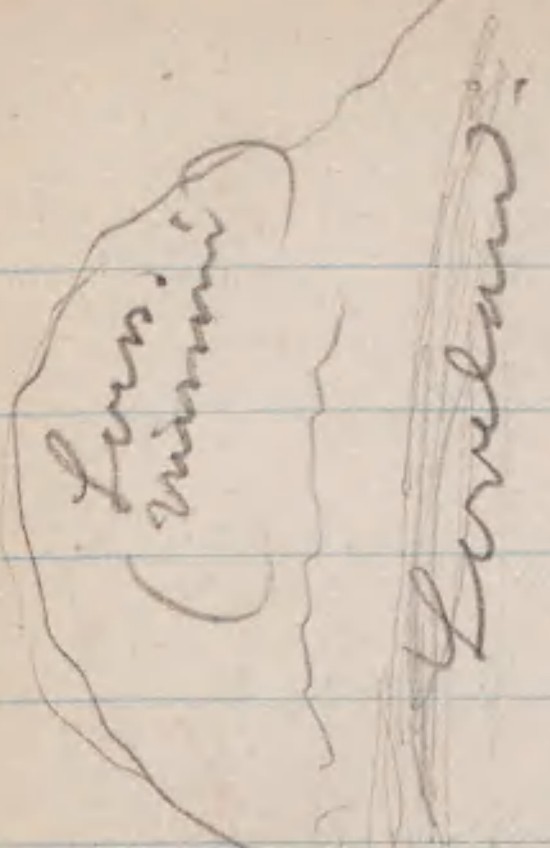
Part of levelled in rock, almost levelled, contains nodules. Rights in the rock, 3 or 4 ft above creek is a layer (6-8 in) of sand & gravel conglomerate (= a portion)

a brown yellow layer

Poles

1 foot second layer. A few

afternoon sand + fine gravel



levelled darker red about 10 ft?

thin part liney 20 ft. Karsan.

way Room

Looking N. 9 m levelled. 1 1/2 x 1 ft

East end.

There has evidently been
some parking here, & masses
of asphaltum shown. But
I could make out no
distinct pre-Kansan.
The Kansan in the upper
part is limy, blue with
red streaks & is typical
western Kansan.

Below, within 6 ft of road
it is blue, cracked &
blue & red along cracks,
but has less lime &
few pebbles.

Small boulders, a more
or less broken line, separates
Kansan & Loveland.

The lower part of Loveland
for several ft. shows small pebbles.

Several large boulders
lie on flat, left by
graders, one a Sioux Q.
3 ft. long - mostly
Sioux Q.

For about $\frac{1}{2}$ mile N. on
W. side of bluff there
is the usual terrace,
in this case sloping
somewhat more. The
man near the "gap"
has an orchard on it.

At an below Kenton
 I could see (from train) a
 number of pockets of sand
 (evidently Aftonian) and
 just above Kenton is
 a bank of stratified
 sand quite thick.
 Rock shows better ledges.

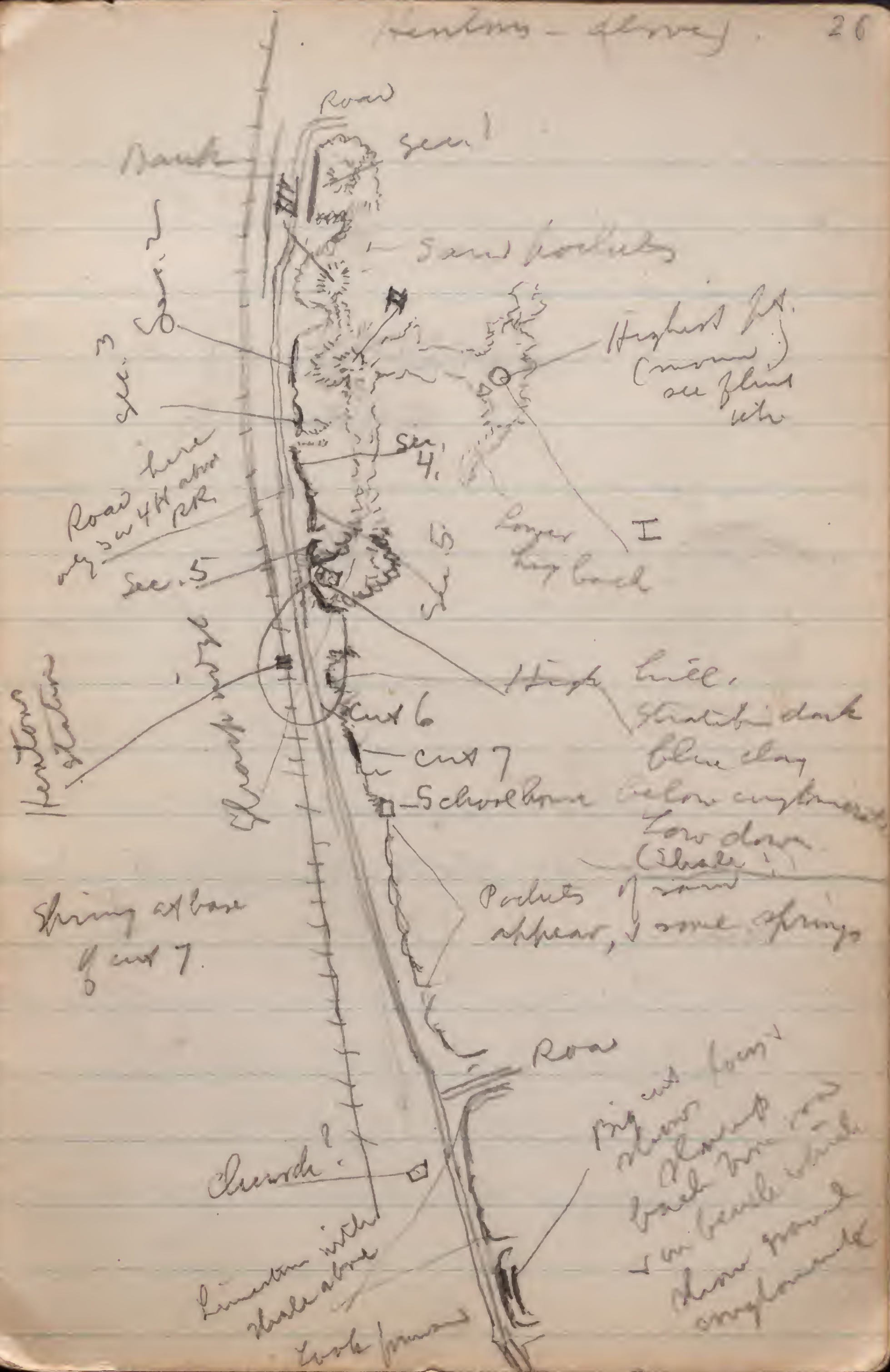
III is 85 ft. below I.

II is 70 ft below I

Yellow loam shales at 130-140 below
 surface run 190 to 225 I
 below /

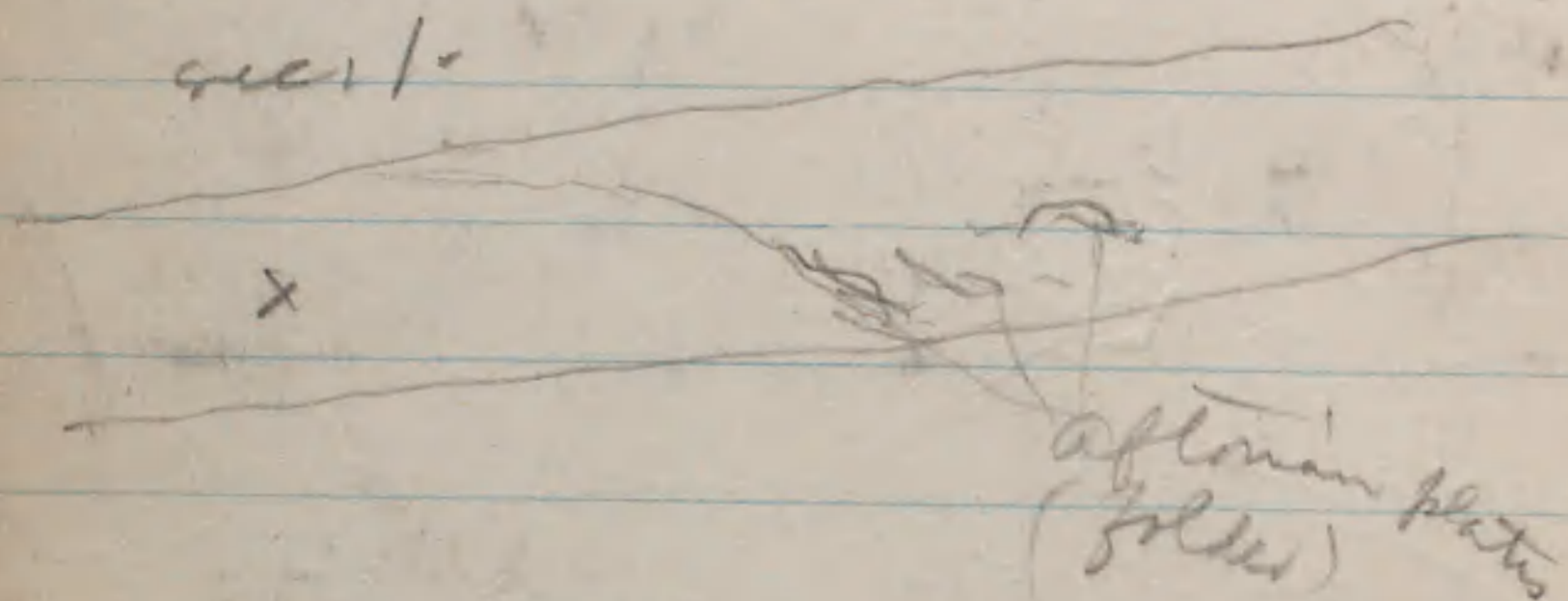
270 ft to foot of sec. 3.

275 ft to RR which
 is about 6-8 ft
 above Murrumbidgee



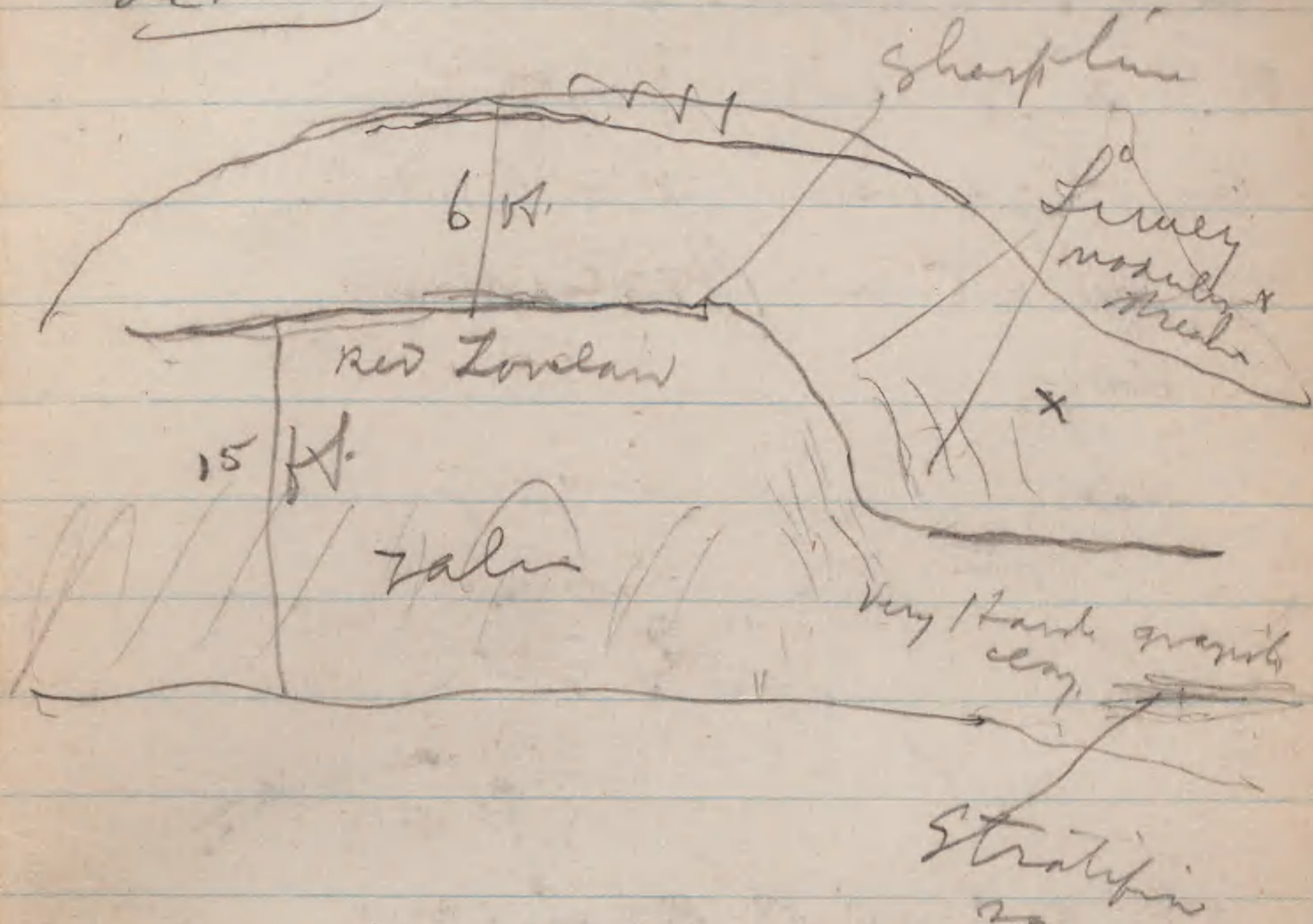
Sec. 1 runs up from about
8 to 30 ft above track.
The section runs up hill south
is about 748 ft. high all
the way.

sec. 1.



X is a brownish aluminous shell
with a few pebbles under in
some shells (see shell).

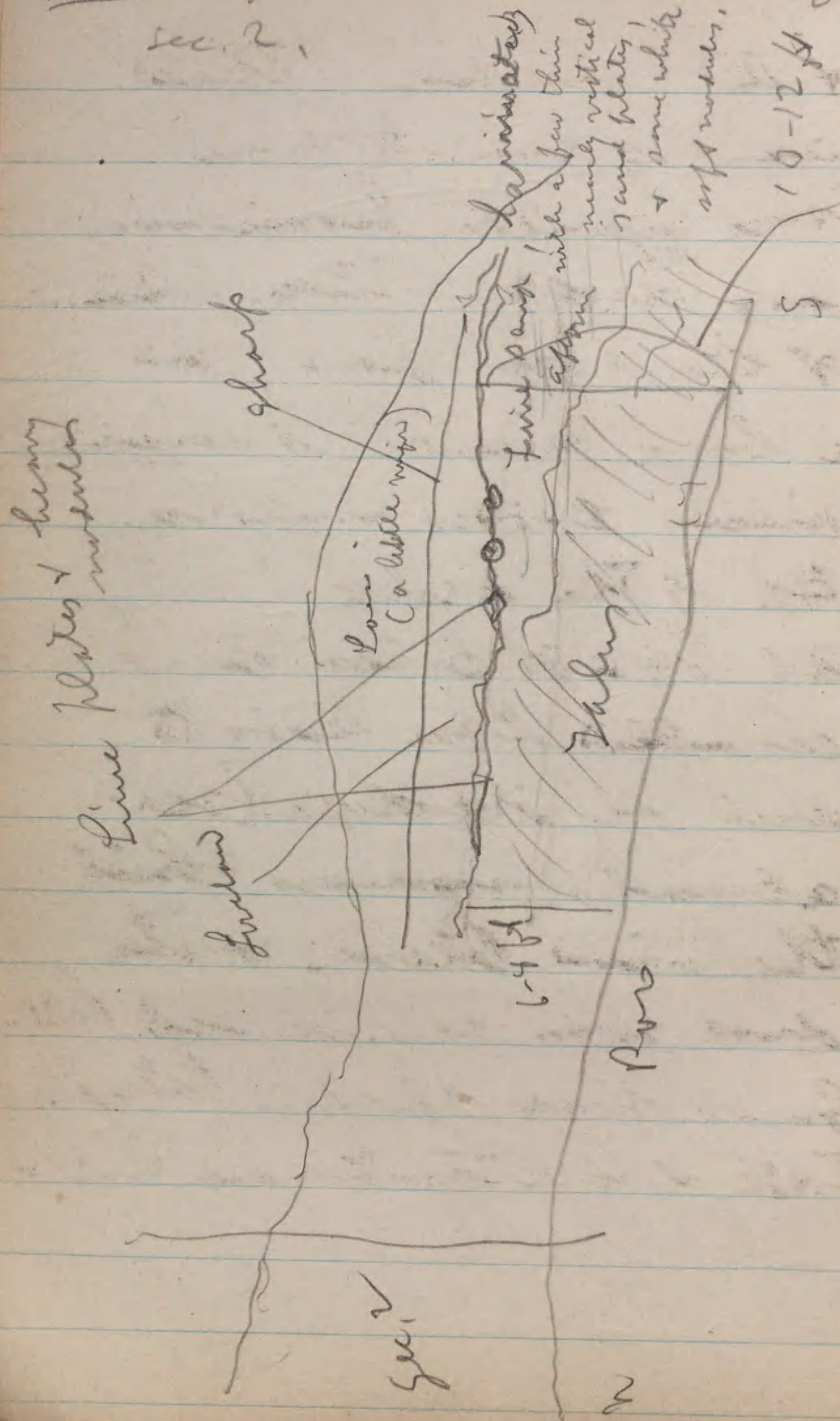
Sec. 2



At X a heavy (mostly blue) (very fine)
loam, with streaks of gray
(probably overwash). The
loam has a few shells,
mostly broken.

This upper layer all along
is probably loam & drift
overwashed from above.
Probably 20 ft. above RR.

sec. 3 Just a continuation S. of
sec. 2.

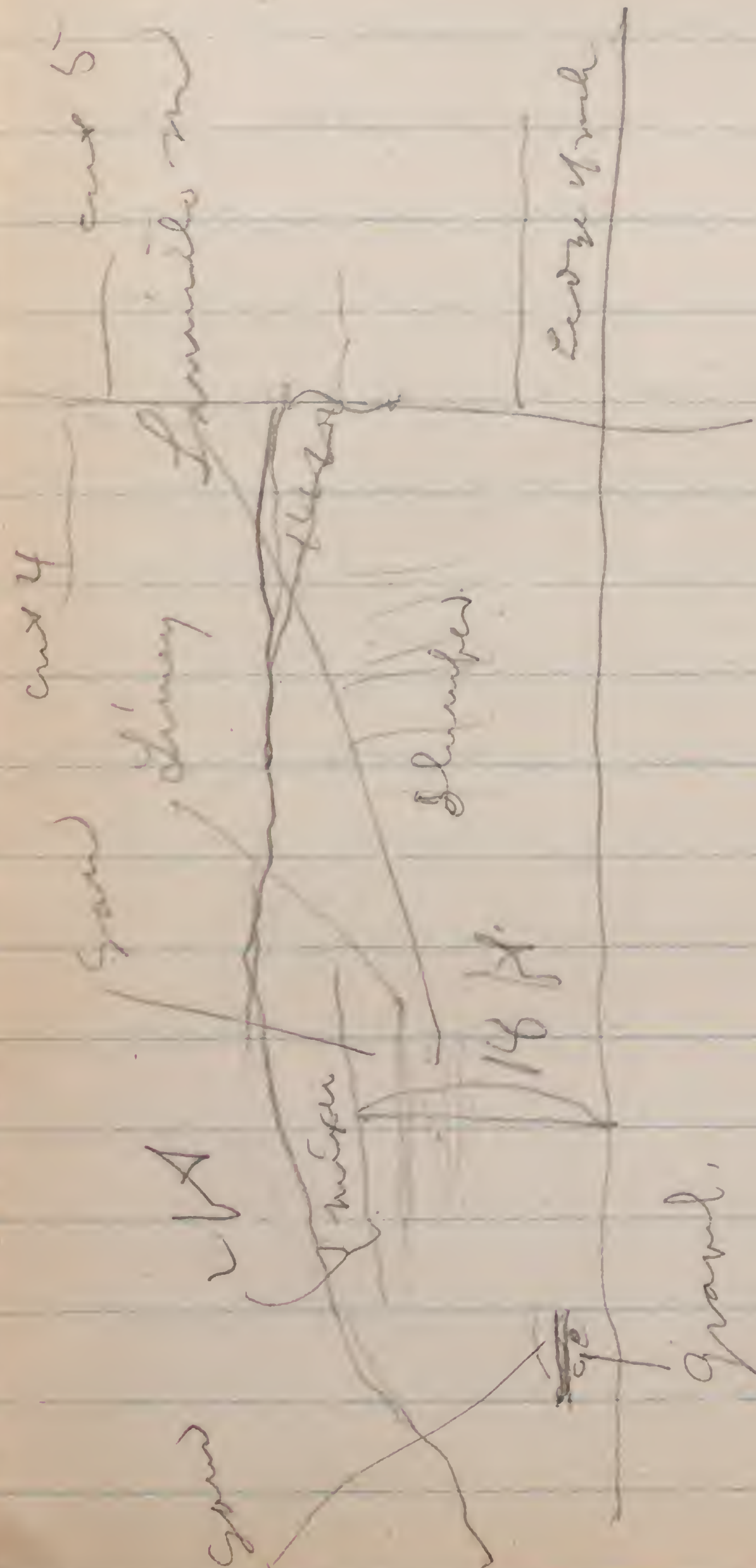


At III & elsewhere I throw
pieces of paper to wind.
Some gyrate prominently,
many dropped & then returned
at least in part, &
a large number of small
pieces lodged right on
top of the ridge!
At 140 ft below top I
crumbled loose clots to
dust on SW. slope (very
abrupt, against which
the wind blew, & the
dust was carried up hill.
Small pieces of paper between
I & II also traveled up hill.

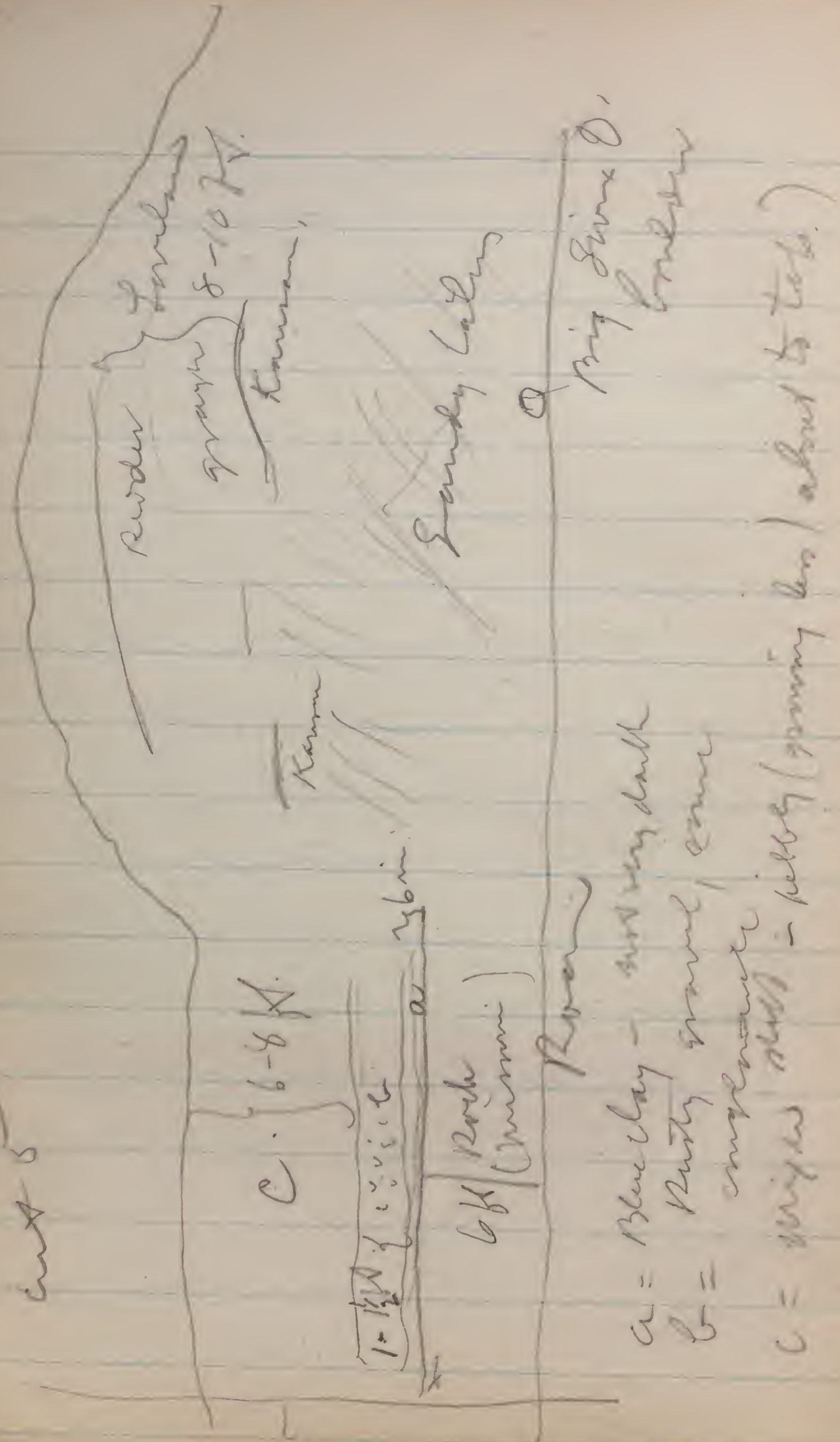
Sec. 4, then fine (in
 upper 6 ft beautifully
 horizontally laminated) sand -
 covered with 2 ft of mixed
 stuff.

The top of sand rises
 18 ft above Road & 20 ft
 above RR.

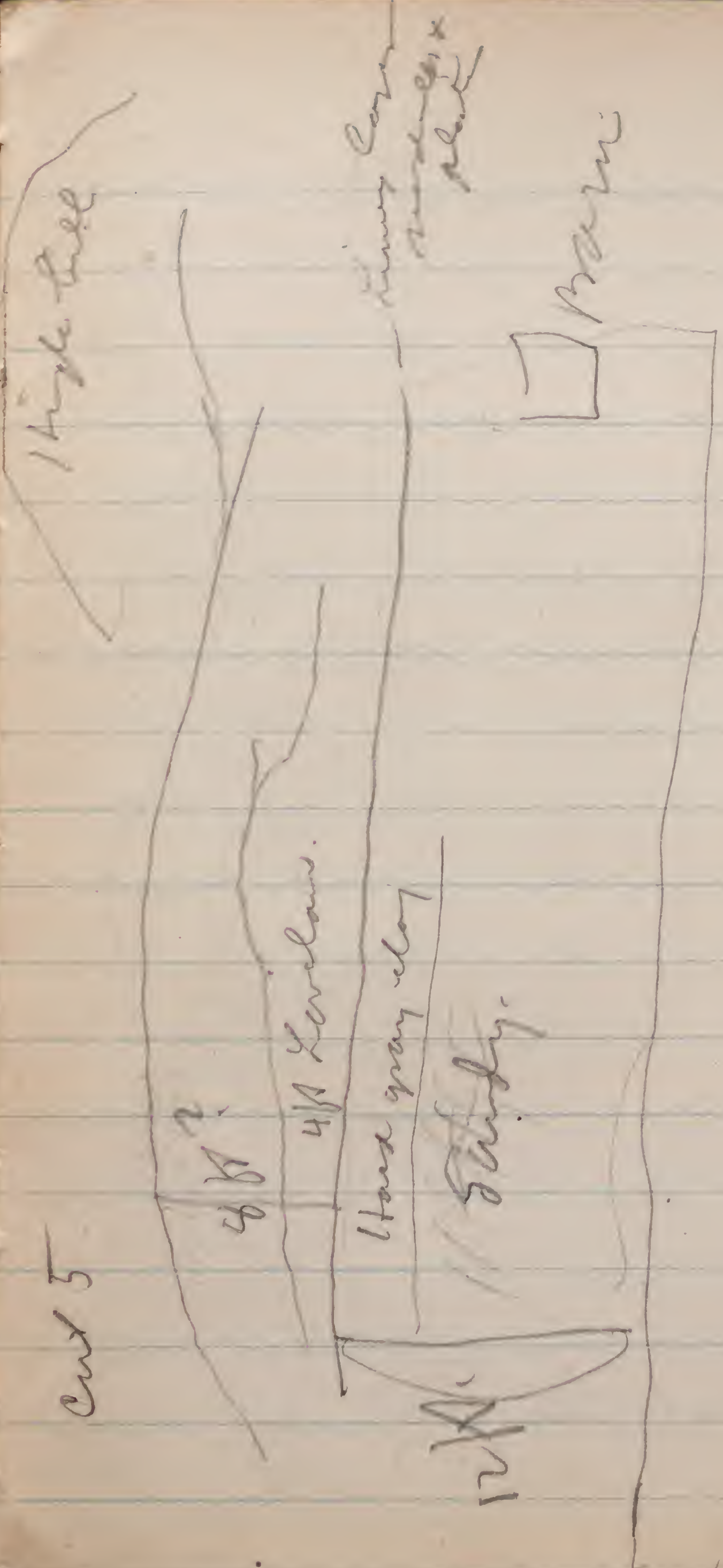
The sand extends to within
 4 ft. above road, where it
 rests on a bed of rusty
 partly conglomerate gravel.
 This shows but towards N. end



cut 5



cut 5



Along cut 6, which is at base
of high knob, rock shows
horizontally, about 3-4 ft
above road, & about 100 ft
above RR.

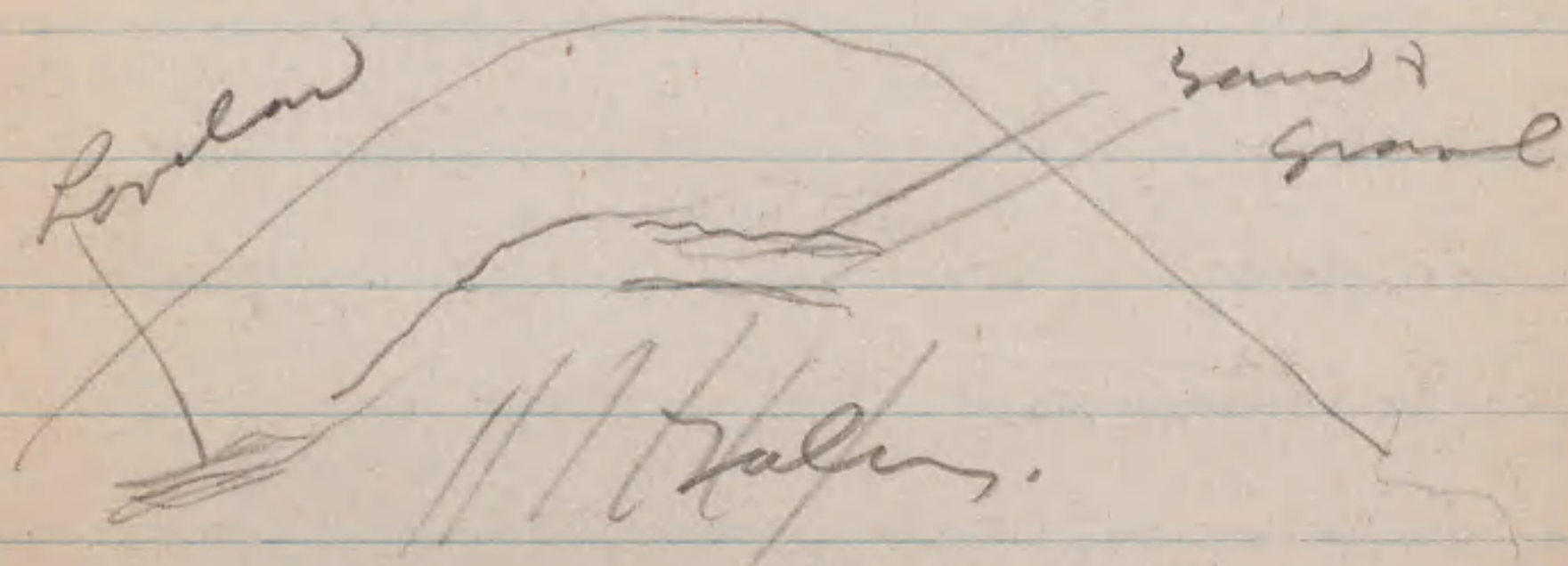
On it all along shows a
rusty, gravelly (some conglomerate)
layer, hardly a foot thick
in most places. The talus looks
the same, but here & there, especially
south, it shows more.

Above it is the heavy gray
joint clay & within the Loveland
with the usual mixture
above.

at extreme south & around
turn to little private
road, the sand above the
conglomerate is coarser,

crossbedded & very rusty
4 ft. exposed - some gravel
band in it.

Cut 7 is high, but damp.
Shows irregular bands of
gravel, etc., as if plowed



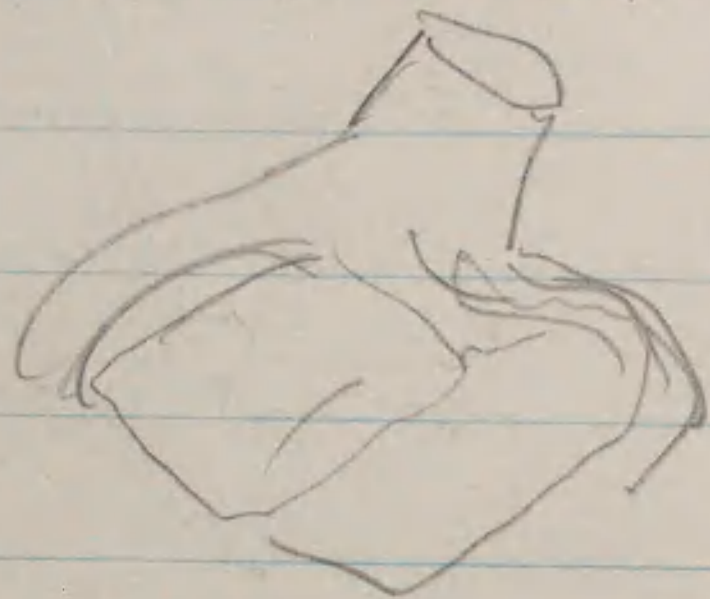
Probably 40-50 ft. high
- erosion shown here - largely

Sioux D.

There is also gravelly conglomerate
here, & some sand.

Usual type, only
seems to be plowed.

Just S. of school a huge
angular River O. boulder
in bank is straddled
by old barrow dump.



River barrow school

main barrow

Sand
pockets

Row
runs
up on
side hill
a little

Old bottom
in side hill

Spring
(well)

Terrace

Spring all
along

Row

8 - from
cut - from
great rock
conglomerate
some loose
much
A great dump
River River O. boulder

shows evidence of

disturbance

The rock masses are
great blocks of
conglomerate!

Up 30-50 ft.

cut 9

Here an alluvial channel
with shells
stuffs

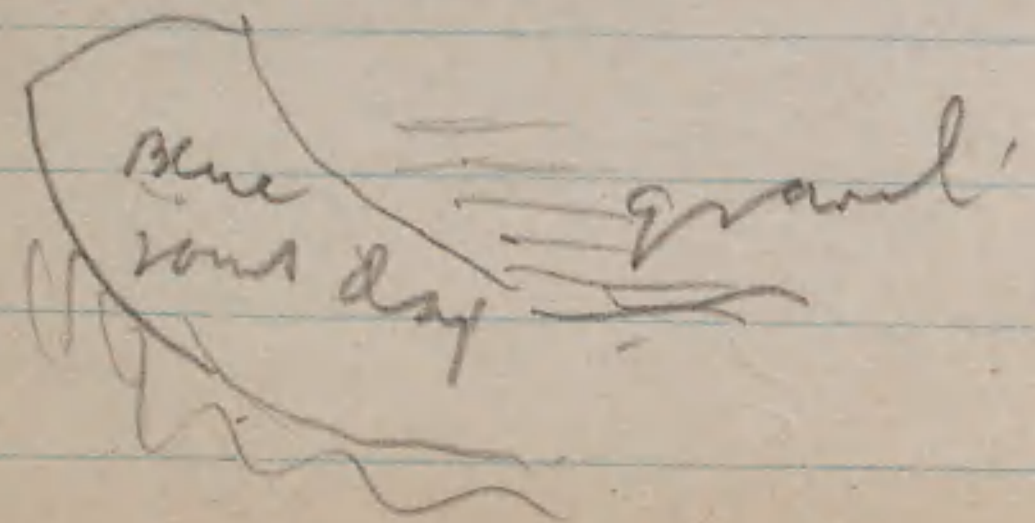
shows again
some pebbles
underlying layers
runs up back
in hill.

Sand
pit -
fine,
white
sand.

These exposures are nearly
all in terrace which
shows most of way more or less

Cut 9. Shows sand - 8 ft +
base covered. Some beautifully
laminated, & upper part very
rusty. K. drift & Loveland
above it. Then Minner
lens.

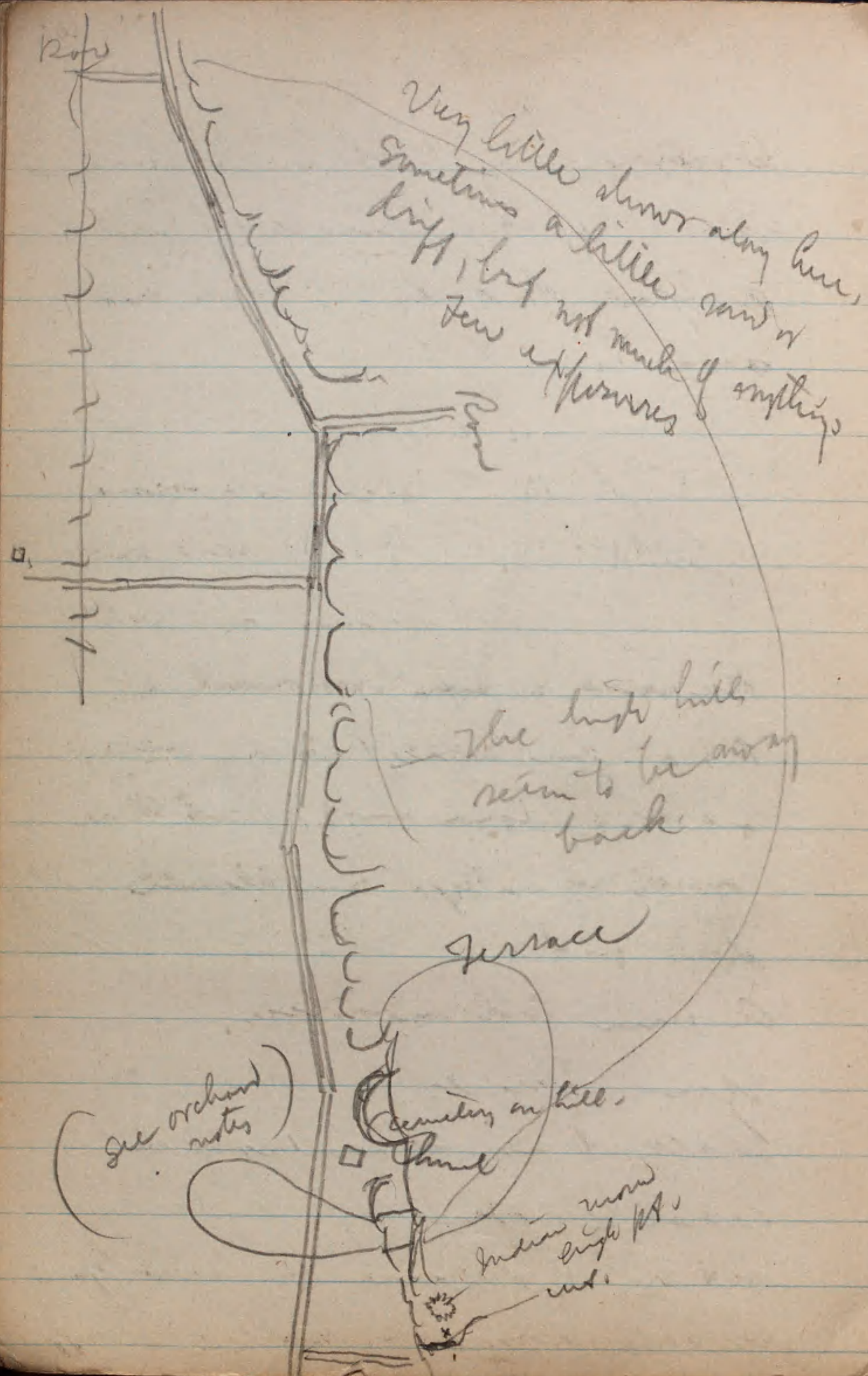
At its S end



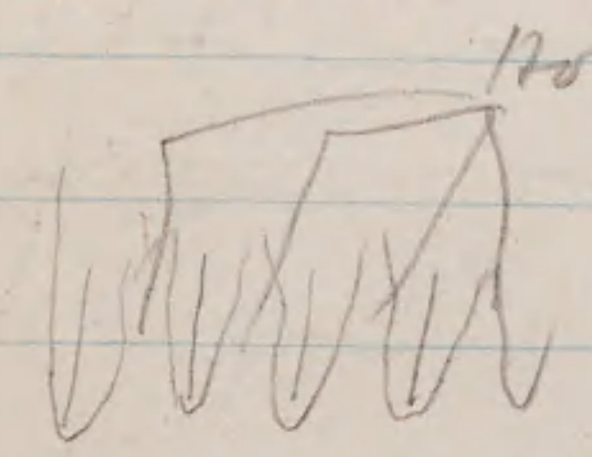
All along here the Loveland
has drift mixture above it.
Overlook from above?

There are no sand pits between
near Ventnor and down to
opposite Haines.
The bluffs between
Pacific City & the
Glenwood gap do not
look promising, & it
seems hardly worth while
to try them except for
mounds on a few of
high points.

Almost no exposures visible
in this part. It is
mostly timbered, & bluffs
slope down to valley.



Orchard notes. There is an orchard on the terrace (part on flat, but this is being cut away).



Hollows

There is a series of hollows & ridges running into valley.

The wind sweeps these nearly at R.L.'s. The apple trees in valleys & on flat look well, but those on top of ridges are stunted or died out.

A fine illustration.

This is the second house along bluff church, the first is near church.

at x the old man at Key creek found a buck's horn 15 ft. deep. He says

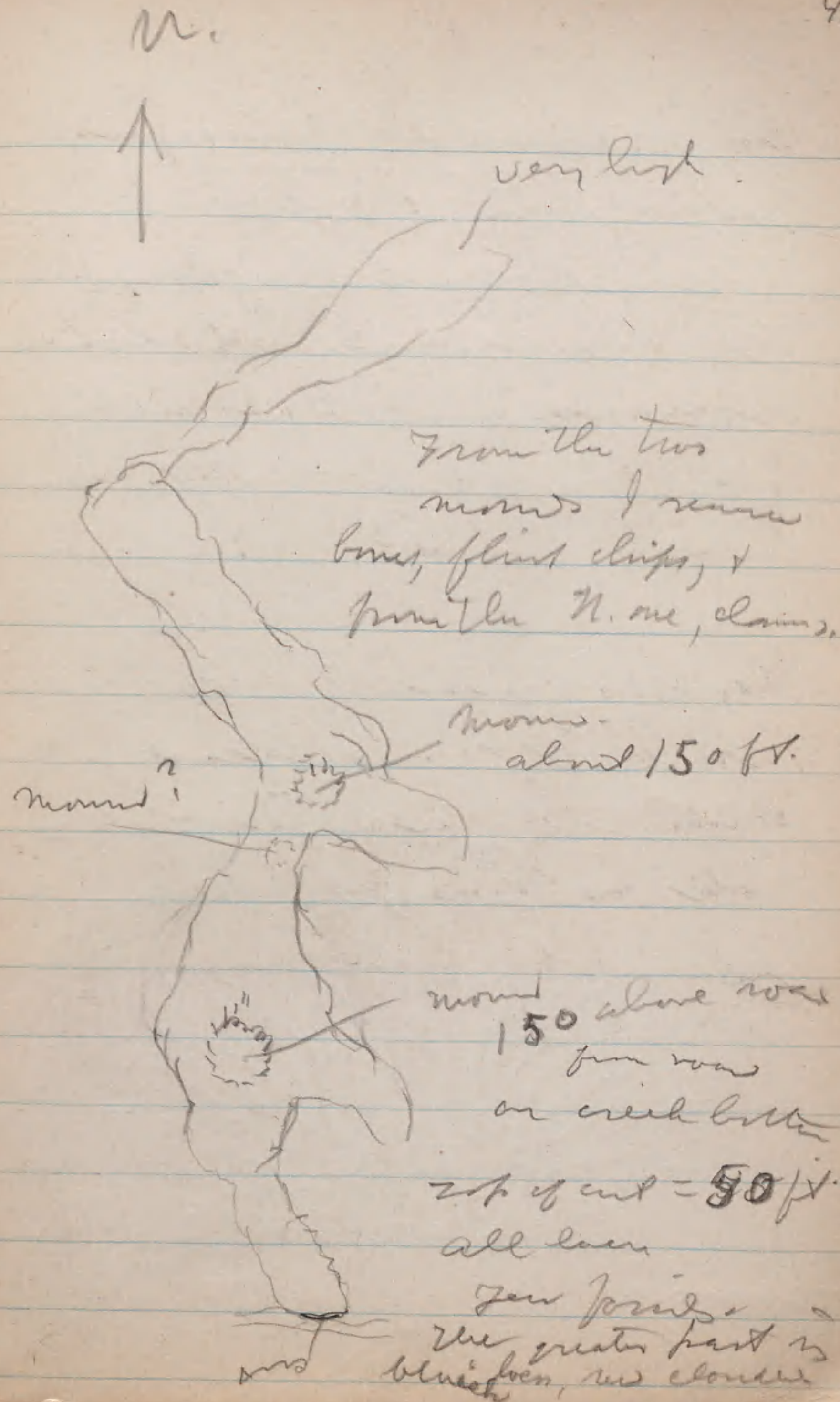
that in mounds they found pieces
of pottery, bones, etc.

To top of cut = 50 ft from
road on creek bottom.

To top of ridge, Indian
mound, 150 ft.

They have found pieces of
pottery, small "flint"
axes, human bones,
etc. in the mounds.

The two represented
were dug into.



The Crescent beginning
some distance above
Kentons, & extending to
Co. Bluffs, is not very
permanently. Slopes mostly
too gradual, no timber,

Left Council Bluffs
at 6¹⁵ PM & reached
Iowa City at 2 AM
Monday.

To Harrison co.

May 13-1909

Left Iowa City at

10:30 PM. for Cedar Rapids

Raining -
May 14, 1909

Went to Sta. 1 & 3. collected

plants in wood near no. 2, &

also at (1) & (3)

At 1: Astragalus -

Vicia palmata -

Castilleja scutellaria

Agoseris -

Antennaria

Quercus alba -

also went to Cox's pit & took
bones. Mostly fine sand
washed now.

In afternoon went west to ⁴⁷
main bridge

Saw fruit of Cassia marylandica

Verbena stricta in sand dune
territory

" Helianthus annuus in sand

" Rhus glabra " "

" Ribes missouriense " "

" Dandelion " "

(These are all given on p. 49.)

Also collected additional plants

(see p. 49).

The sands look pretty desolate
at this season of the
year. I found a number
of Macchellus in the
Cottonwood timber.

Also moss on the sand.

When coming back I could
see that bluffs did not
show the contrasts of
summer. They are all
uniformly brown, or green
or greenish. Even the
brown slopes have a
suggestion of green.
There is less vegetation
at this season of the
year, & the differences,
or striking in summer
are scarcely noticeable.

49
For additional plants
observed, see p. 47.

The following plants were
collected on the more open
sands:

Viola -
Fragaria

also saw *Verbena stricta*.

The following were on sand
in the more timbered ^{or brushy} part:

Populus deltoides
Salix missouriensis
" *amygdaloides*
Cornus -
Vitis vulpina
Rhus glabra
Ribes missouriensis
Larococcus densus

also saw:
Helianthus annuus

May 15, 1907

Visited Tim. Babcock
gave me a horse tooth

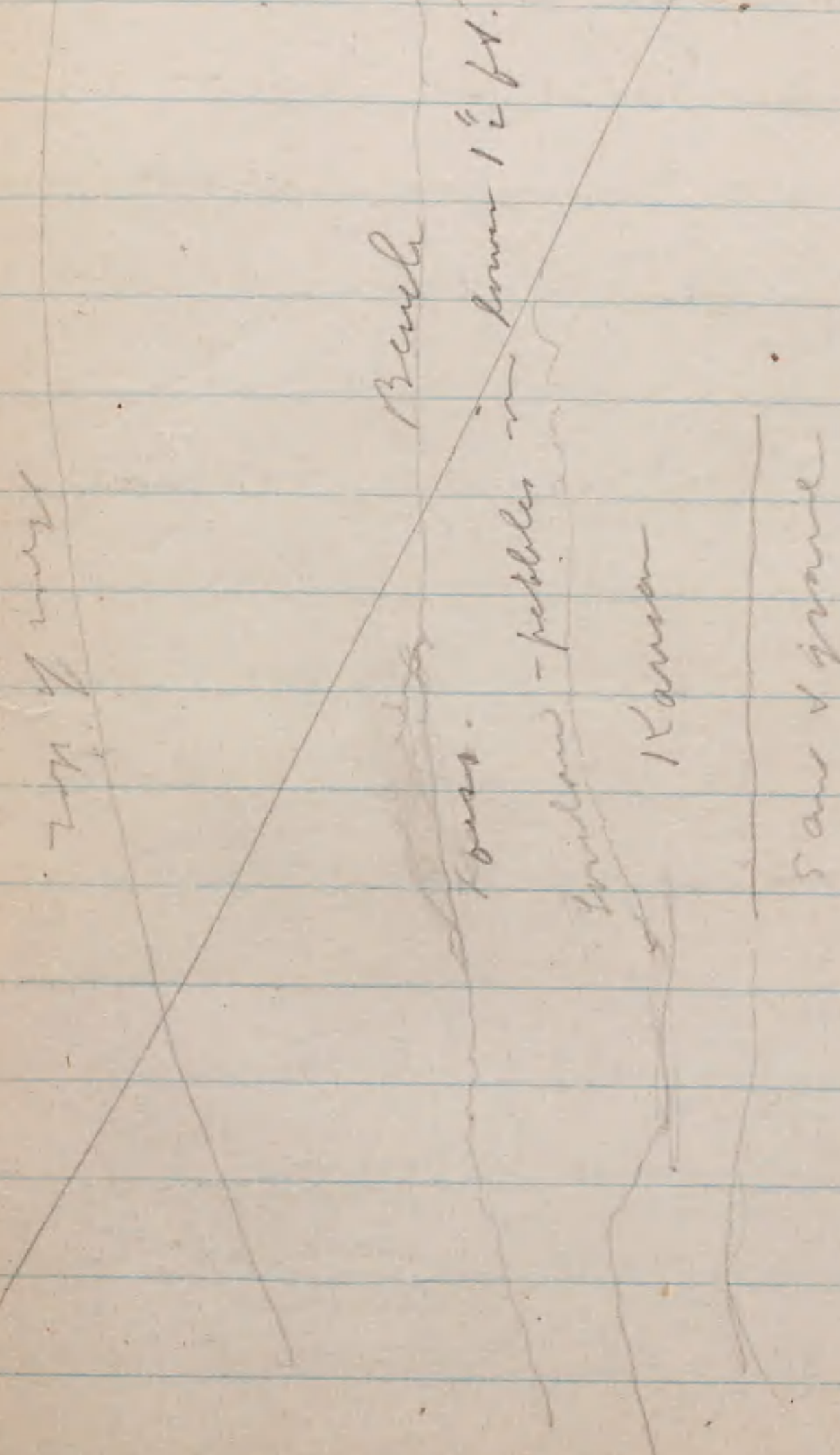
The N. end of pit is now
filled & they stripped south.
The section now appears as
shown on p. 51.

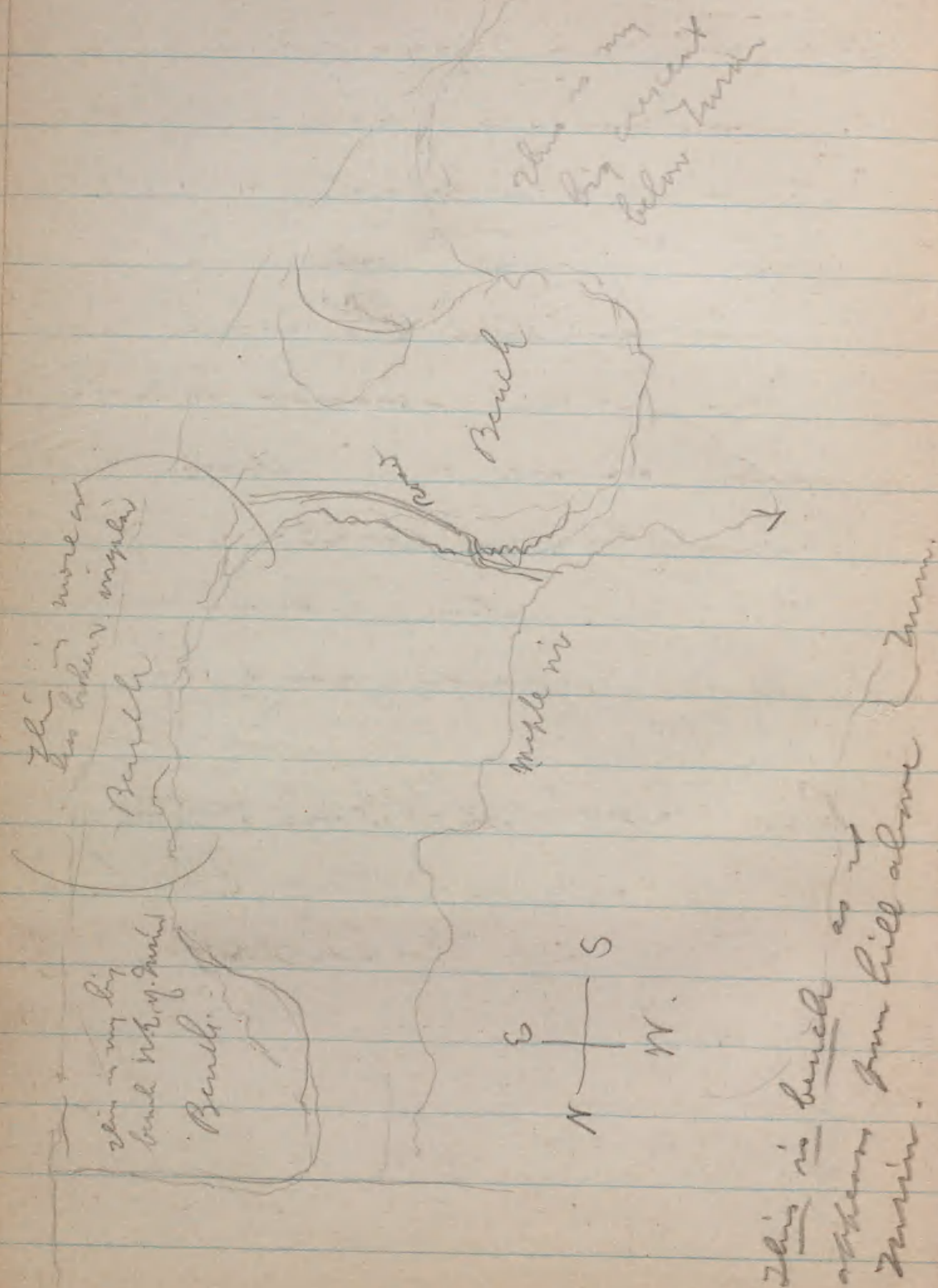
The Loveland is here quite
distinct.

The men say that they worked
(bores?) down to hard, putty
like dark blue clay. Mr.
Babcock said it was very
tough to work. It is
evidently pre-Kansas.

Babcock says that when ^{But} Ellison
was bargaining for land the old-
timers assured him that there was
sand everywhere in every wash on the hills!

51.
He cited this to show how
"reliable" such information usually
is.





On the Turin hills:

Traxium cuneolatum - very common - fl.

Astragalus caryocarpus - " " "

" - quite " - "

Sisymbrium angustifolium - not common - fl.

Ranunculus acris - common - young shoots

Yucca angustifolia - plants - common

Lithospermum longifolium - not rare - fl.

Psoralea hirsuta - fruit - common

Castilleja scabra - very common - fl.

Rib - blacksmith - from gully

N. of Turin - from sand.

Christ Mathiasen,

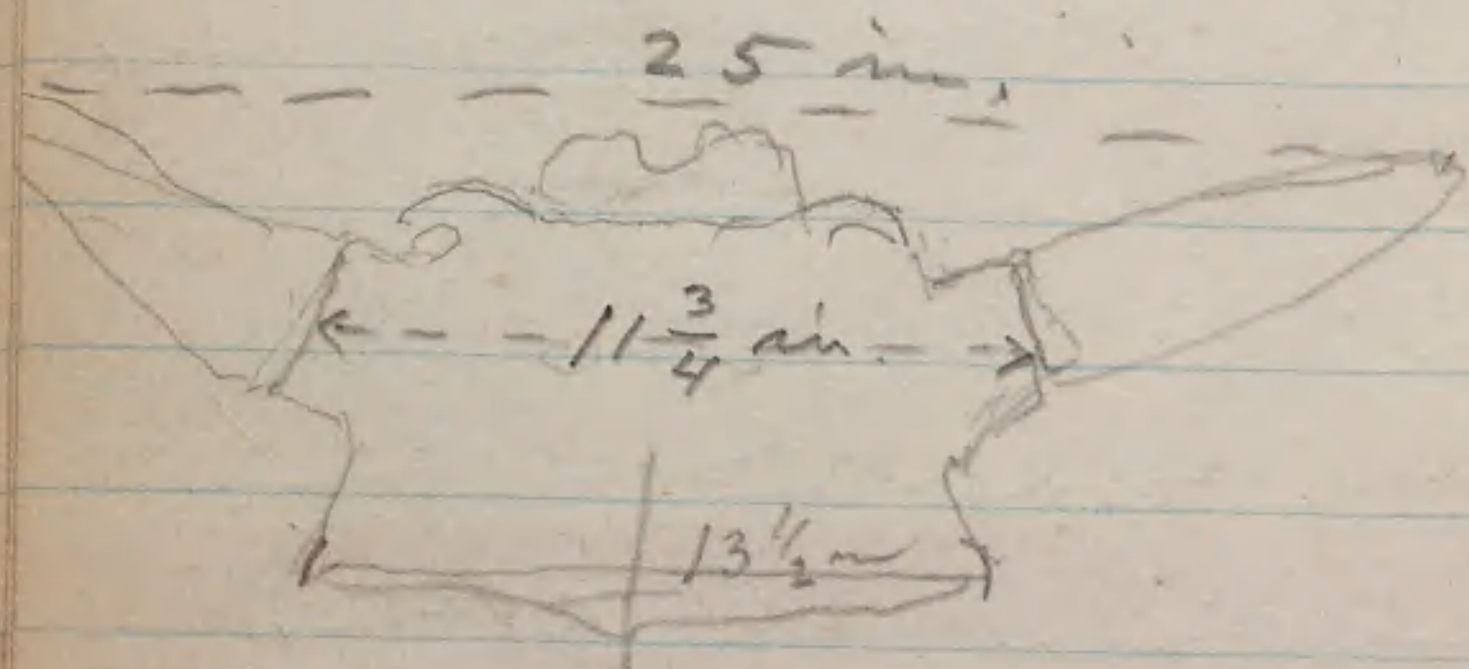
The rib was found in gravel at the 3rd house above Turin.

The men say lots of small bones were scattered through.

This is at place where sand pit

appears N. of creek (or gulley).
The old pit was down in gulley
(older bridge or near it)

The skull in Mathias's
possession is ~~evidently~~ ^{arguably} not
~~Pro Cataglyphis~~. He says
the farmer (in sec. 17, Jordan
Twp.) claims that he has
other bones, etc.

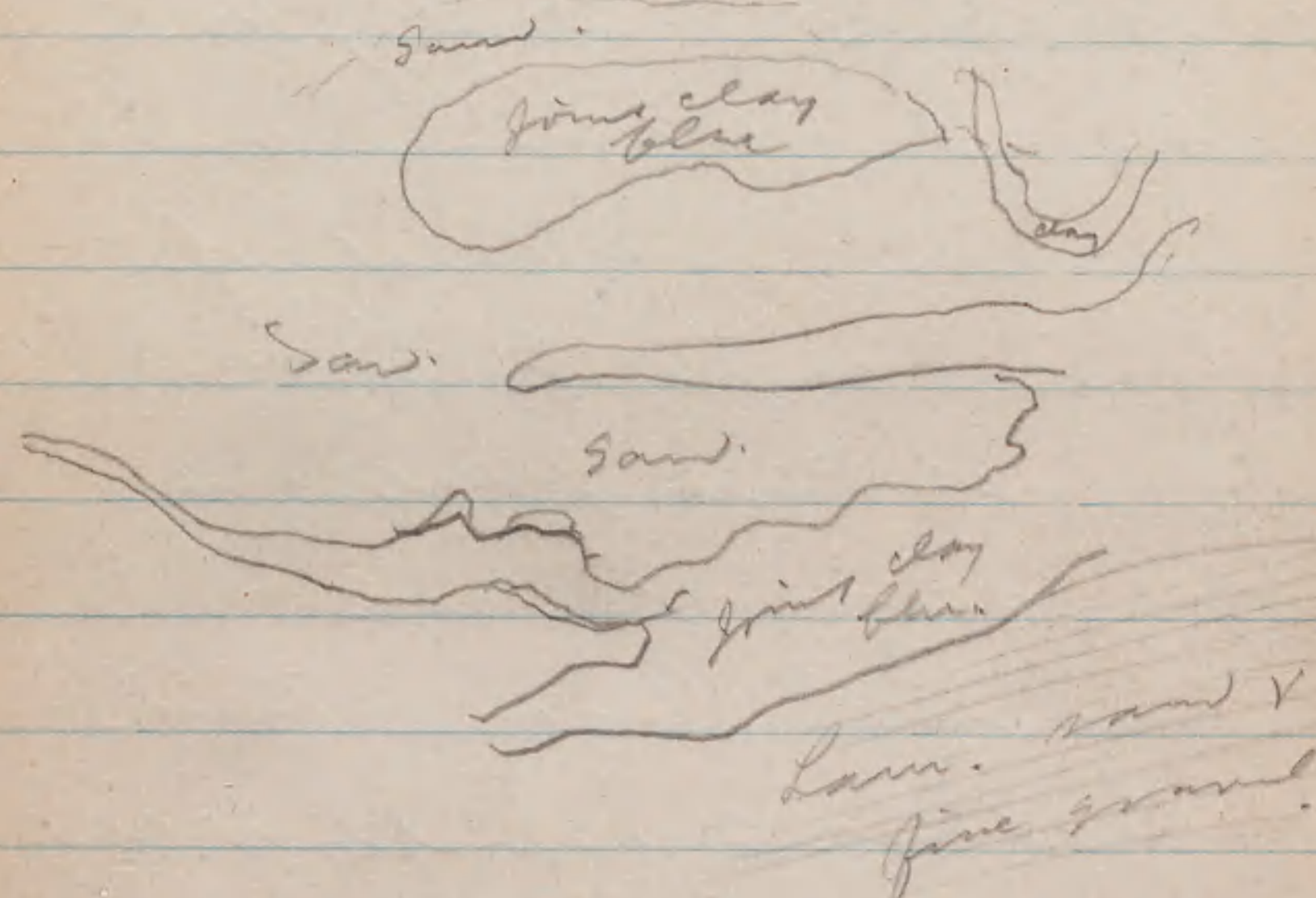


Says he has a lot of things
on Beaver creek - washed out -
in sec. 17 Jordan Twp.
Bison $11 \frac{3}{4}$ in between bases of
corn - 25 in - tip to tip

Took trip through Fischer
woods & collected plants.
Found my glasses. Sandhill now better
^{exposed.} ~~cut~~ "my glasses hill"

Sand & gravel extends up
10-15 ft higher than house
is last year.

Water point, towards E. =



This is evidently all
plowed up.

saw Chas. Whitney's teeth.
One, from the Griffin place
in sec. 17 N.W. of Mapleton,
is a part of a tooth of
Elephas imperator, with
only a little worn off.
This was in gravel about
35 ft from surface, in
well at Griffin's home.

He also has a part of
a mastodon's tooth from
the Wilkinson place in
NW. corner of same
township. Here a tusk
& other bones & teeth were
taken out from well
(35 or 40 ft deep?) at the
house in NW. 80 of the
Twp. A. tusk, etc.

was left in.
Mr. Whitney gave me
a skull of Bison taken
in sec. 10, Center Twp.
He has another, & also two
leg bones, of which he
gave me one.
There were washes out in
creek bed.

May 16-1909

On the hill tops S. of Mapleton
in prairie, & *Carex pennsylvanica*
Anemone, & *Pulsatilla*
are very common.

The upper slopes of valleys are
everywhere covered with *Q.*
laevis, - smaller & scantier
above. In fl. Hazel common
also now.

Eryngium ^{campylophyllum}

Lithospermum canescens

Poa pratensis

Agrostis
peruviana ^{not common}

Viola palustris

Dandelion

Astragalus campylophyllum

Carex pennsylvanica

Lithospermum angustifolium (few)

Pulsatilla (buds & fl.)

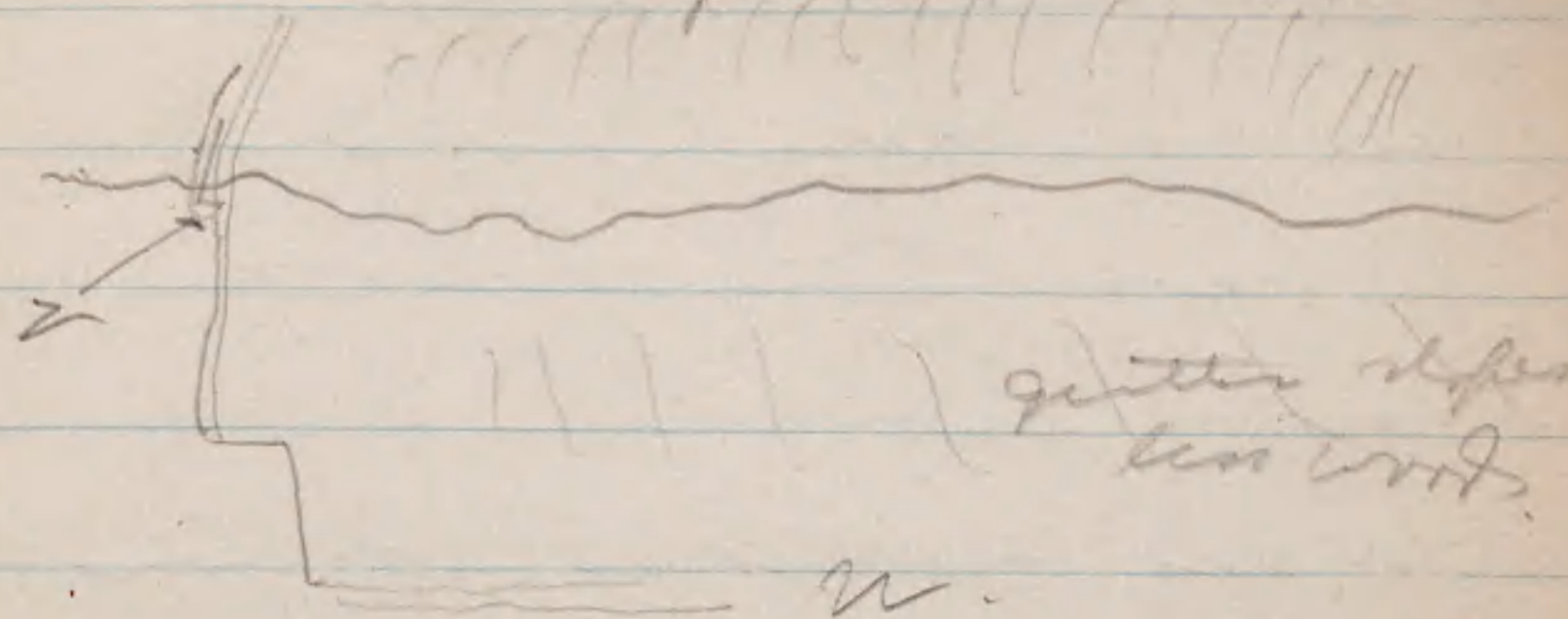
Strawberry

Anemone

Galium *brunifolium* - fr.

W.

Rough, woods.



Brown loess were found along
this creek. The valley is
deep & not wide. All this
is very rough Kanran tending

In NE. corner of sec. 15, on E. side of
r. is alluvial bank 10 ft
above road & about 20 above
creek. - 2 - See shells

It is mostly dark, but
upper part is yellow.

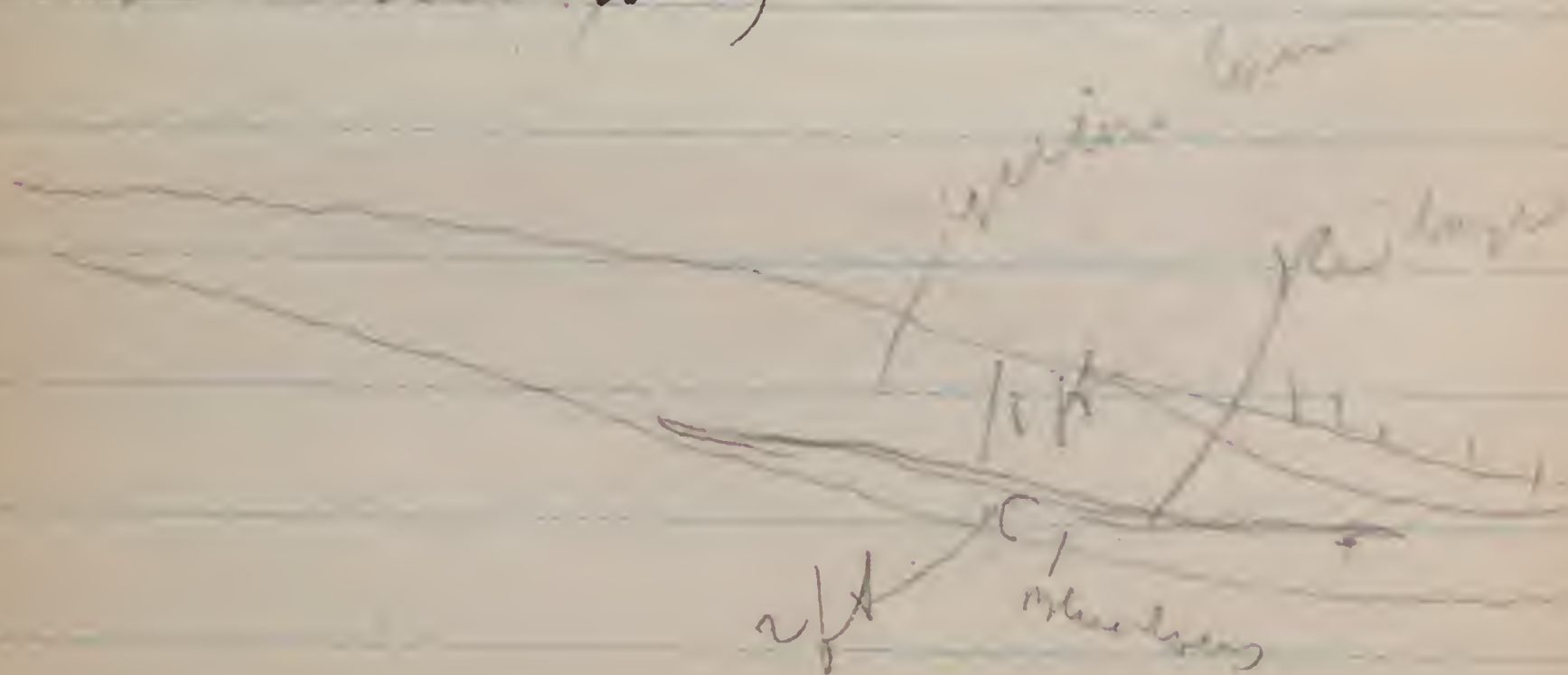
Plowed fields in this part of
country show black soil only
in the little valleys or ravines,

where original vegetation was
more vigorous, and tops of
ridges (even the small ones)
are yellow.

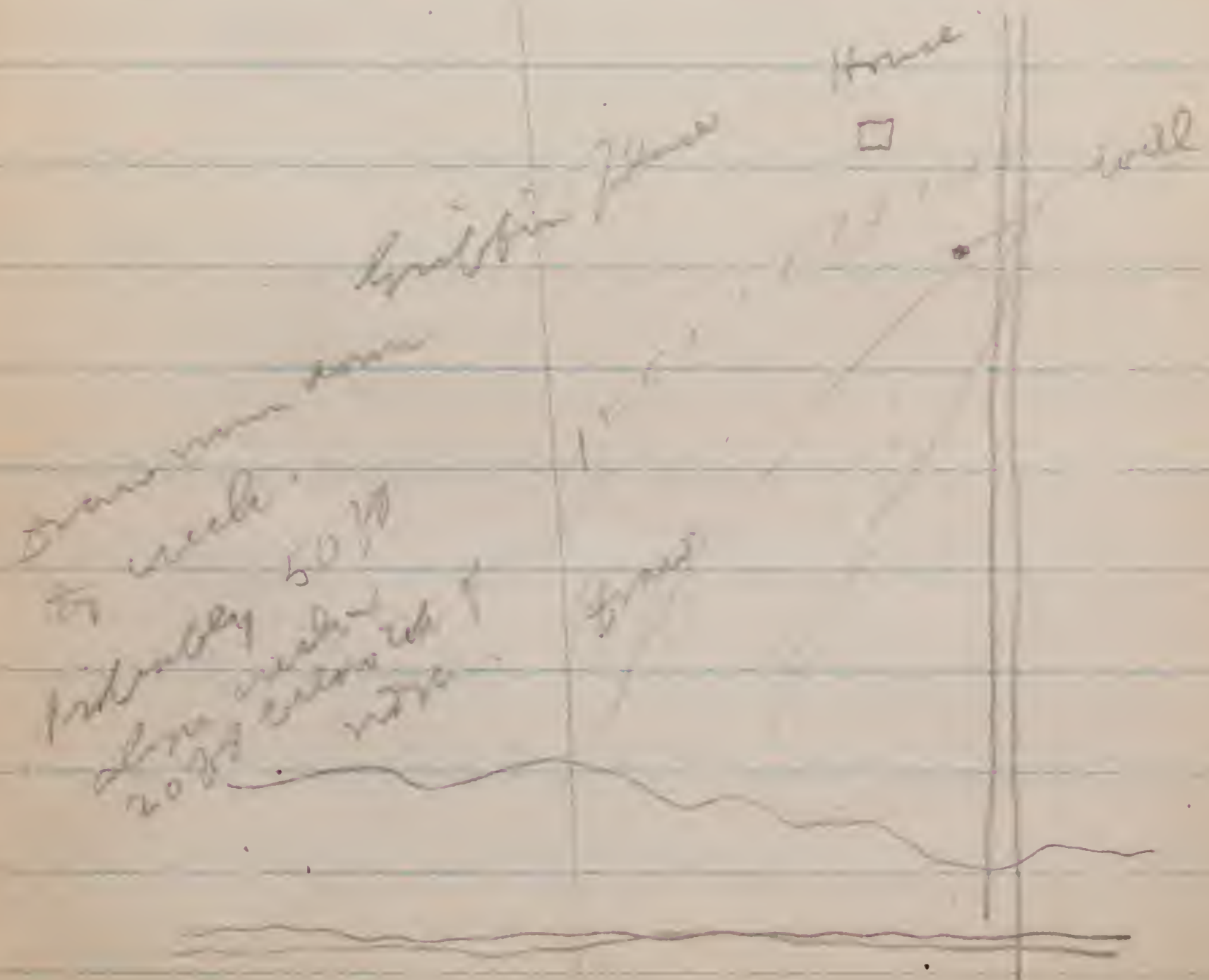
In sec 31 (at X), St. Clair Twp.
the loam is about 7 ft deep
(i.e. cut) & under 4-6 ft in

yellow, with nodular layers & a
few larger nodules below.

Then a few layers cutting
below into blue (red mottled)
(Kansan loam)



at S.E. $\frac{1}{4}$ of sec 17 N. of
Heider cr. there is
drift $\frac{1}{2}$ way out hill. One
large broken Kansan drift.



J. E. Wilkerson

W County line

(Pit)

well

Iron

The mentioned tusk and the
tooth in Mr. Chas. Whitway's
possession, were found in
digging a well at point
marked "Pit".

Another tusk was seen

63
down there. The tusk was
in sand & gravel. It is
said they lived in and
touched vertebrate, or
something of the kind.
The tusk went to some
college, - probably at
least three years ago.

May 22	Hack ²⁵ fare to Cedar Rapids ⁶⁵	\$.90
	Fare to Logan	4.72
	Lunch ⁴⁵ in auto	.45
	R.R. to Cedar Rapids	4.72
	R.R. Ce Rapids & Iowa City	1.06

Left Iowa City at 10:45 PM.
Found C. & W. time changed & had
to wait till 4 am.

Left at 4 am.

The Darkling is exceedingly abundant
all along prairie portions.

Prairie flora gone, except for
little bits along RR. rich grass.

Saw following Prairie flowers along
Prairie

c.	Corydalis		Poa antenaria C	Saw following same flowers along
c.	Lithospermum scopulinum		Juncus balsamitae C,	
c.	Doxanum nudicaule		Viola pedata C	
c.	Symphoricarpos angustifolia		Dracopis — C	
c.	Capella bracteata		Lithospermum concinnum C	
c.	Ecleria mycelloides		Comandra umbellata C	
c.			Hypochaeris erecta C	
c.			Harzanthrum C	
c.			Astragalus frutescens C	
c.			Pedicularis canadensis C	
c.			Viola "palustris" C	
c.			Sisyrinchium alpinum C	
c.			Oxalis violacea C	

Blue grass everywhere, ^{these marks} were seen in
Crawford co.

(between D. + Arim)

Between Denison there are gravel beds on flat along RR, + several miles out the hills on N. show boulders (drift) away up, more than 1/2 way. Phlox divaricata occurs in Cranberry co. on alluvial flats in wood.

Between Dunlap & Cozom, the following plants were observed:

<u>Prairie</u>	<u>alluvial</u>
<i>Lithospermum canescens</i>	<i>Ranunculus septentrionalis</i> ?
<i>Viola palmata</i>	<i>Cardamine hirsuta</i> ?
<i>Eryngium angustifolium</i>	
<i>Pedicularis canadensis</i>	
<i>Fragaria</i> —	
<i>Rumex crispus</i> & <i>erogone</i>	
<i>Dandelion</i> }	
<i>Oxalis violacea</i>	
<i>Sisymbrium canescens</i>	
<i>Lithospermum angustifolium</i>	
<i>Comandra mollis</i>	
<i>Galium aparine</i>	
<i>Senecio basanthus</i>	
<i>Capsella bursa-pastoris</i>	
<i>Apocynum androsaemifolium</i>	
<i>Rumex acetosella</i>	
<i>Rosa arkansana</i>	
<i>Adiantum canadense</i>	

Wet places

<i>Carex</i> —
<i>Rumex</i>
<i>Cast. leaf</i>
<i>Trifolium</i>
<i>Utricularia</i> yellow
<i>acris</i>

June 3-1909

Left Iowa City at 3:30 PM.
& reached Stanwood at
about 7 PM.

Met Paul Kuse, principal, &
looked at plants trees.

Took specimens of black
hard maple & a grafted
elm-like tree (see spec.)

Delivered address before good
audience. Returns to

Cedar Rapids at mid night
& put up at Alliam Hotel.
Design spoke at Mechanicsville

In afternoon collect along RR for 69
m. west of Roland. See prairie
plants.

June 4-1909

Left Cedar Rapids at
7:25 am for Marshalltown.

Left on Iowa Cent. for
Roland. Lectured at night to
Norwegian audience. Drove to
Story City, took train to Ames &
then to Winnie Valley, which I
reached at 6:25 AM on

June 5th

Geo. H. Culavin (son) G. F. C. = father

Found an Indian skeleton, reclining
(partly sitting, & facing South.

It was ^{mostly} 3 ft. down to skull.

The skeleton is that of an adult
male, probably over 6 ft. high.

with fine teeth, & powerful frame.

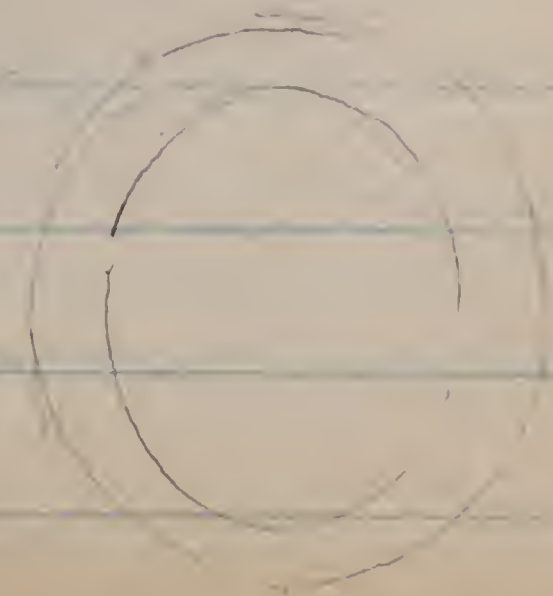
Which it were bears claws (not horns!)
only cores

perforated, & copper bells (like little

shish bulls.) + copper tubes (taking)
also arrow head (blunt) ochre, &
piece of tube, look like part of
very rusty single barrel, also piece
of metal badly rusted. A bone
scraper, ochre, and a wooden
key with nine wraps around with
wire.



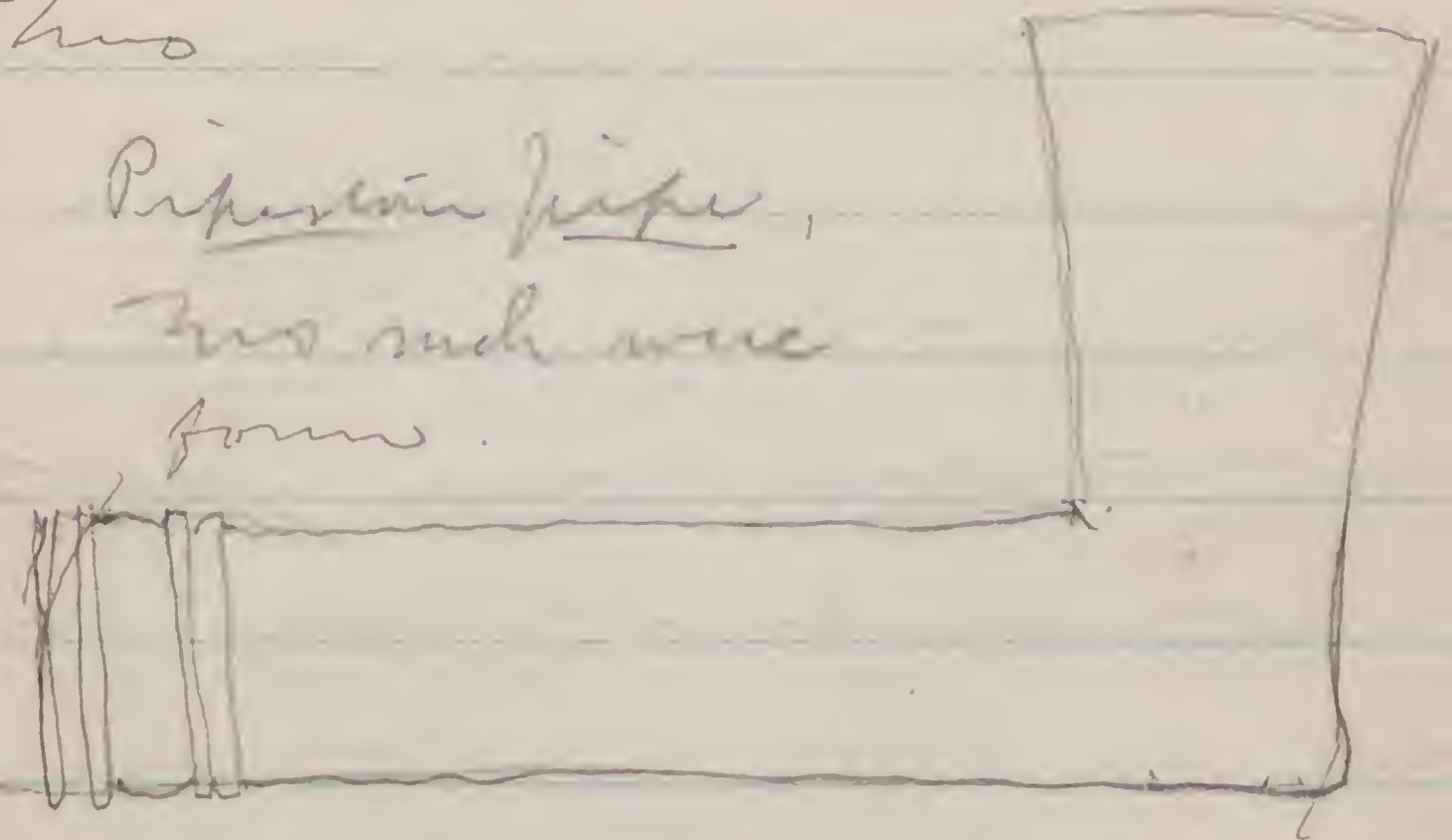
also copper or brass key



also 3 small shells, two probably
sea shells & 1 fresh.

Two

Pipes in pipe,
two such were
found.



Other skeletons have been found
near by, & also scrapers, etc.

Clam shells are abundant & above
common on hill.

Bone stake sticks (4-6 in) were
found across over body, A & S.

The grave was in a barrel
85 ft. above creek bottom.


Clams occur. They are shown

over slope 30 to 50 ft above
bottom in abundance.

The hill rises beyond this
to north. Got the bear-
claw necklace

June 13-1909 - Mr. Cullavin found remains
of two children - Tops of two
litter skulls, & several small ribs,
a few long arm & leg bones,
no backbone. Seemed to be in
large piece of buckskin^(?) folded
into several thicknesses - 5 or 6 -
about N. of head of old cliff -
about 3 1/2 ft deep. A piece
of birch & black walnut were
with them. Probably stakes
driven in as marks. -

Small brass ornaments (two)

 - 4 in. - thin -

were taken
by Mr. Cullavin
on June 13-1909

I visited area (1) and found
Oxytropis lamberti, *Ceanothus*
ovatus pubescens, *Fragaria*
Castilleja occidentalis, *Oxalis stricta*

At area (2) found *Hydrophyllum*
virginicum, *Arabis*
a grass.

Took bur oak for. etc. from
large tree near sta. 2,
buried & in alc. also
some from little bur oak
at sta. 1.

At sta. 3 & near slopes, I found
following, - but place pastured!

Oxytropis lamberti
Ceanothus ovatus pubescens (very common)
Cornus umbellata
Lithospermum canescens
Castilleja occidentalis
Fragaria

But the best area is on south
ridge, just above Smith's highway.
I found *Oxytropis lamberti* and
Cortilegia nudiflora exceedingly
abundant, the former producing
a *Phlox pilosa* aspect. Many of
the older fls. of the latter are
reddish or purplish.

The following were found:

Oxytropis lamberti - fl.
Cortilegia nudiflora - fl. + fr.
Prunella esculenta - fl. + buds.
Astragalus canadensis - fr.
Sisymbrium angustifolium fr. (some fl.)
Lithospermum canescens - fl.
Delphinium - buds.
Cornus pennsylvanica - fr.
Viola papilionacea fr.
Pentstemon grandiflorus buds.
Lepidium apetalum fl.
Poa pratensis - fl. + fr.
Oxalis stricta - fr.
Physalis pubescens - fl. + buds.
Ceanothus ovatus pubescens fr.

Campanula umbellata -
Anemone cymosa! buds.
Koeleria cristata - coming into flower
Stipa spartea - " " "
{ *Vicia lunaria* - fl.
{ *Lappula* - fl.
Lycopodium - fr.

Left at 2:45 PM. for Fremont
at Scribner. waited at Scribner
until 8:15 for train for
Clarkson. was met by Louis
Zolda, Wendell, Reptimach, Karl, etc.
Put up at Mr. Zolda's, with
Mrs. Bernick of Omaha whom I
had met in train at Scribner.

June 6 - Sunday.

Chase drives & writes.

Went over to

to a farm just S. of Clarkson,
to see bones which were
taken from a well.

The well is well up toward the
part of a small, & they went
down about 34 ft.

The bones (of which a lot is
left next to well) were at a

77
a depth of between 9 & 10 & rest
on, or slightly in, a layer
of bluish gray loess with im-
tubes (post-Kansas). The
material above this was a
yellow sandy stuff, but may
have been in part overwash
from higher points.

The blue loess was about 3 ft.
thick, & under it, & rest of
way (about 20 or 21 ft.) was
reddish Laramie joint clay.
They stopped in this,
I saw two bones.

This is probably a buffalo
(bison) certainly more recent than
post-Kansas loess.

Spoke in afternoon with Mr. N.
Mr. Dudgeon pointed out

and introduced Mr. Duratho,
who was Miss H's host.

Left at 9:20 PM. on freight
for Summit.

In walking over prairie in
morning I noticed:

Eryngium angustifolium

Oxytropis lamberti

Oxalis purpurea

Prunella emuta

Astragalus canyonsper

Carex pennsylvanica

Poa pratensis

June 7th 1909

Left Summit at 6:09 am.
via U.P., & reached Missoula
Valley at 8:35 am.

Drove up road beyond Salmon
through woods. Road bad, saw
collected plant.

Returned at 1:35 & had to rush
to get ready for train.

Left Mo. Valley at 2:26 PM.
Saw much *Corydalis* on bottom,
also *Trifolium*, *Tridacna* (smooth)
& *Anemone canadensis*. Little (L²)

Below Crescent a bare
low hill was studded with
Pentstemon grandiflorus in flower!
also saw *Oxytropis sp.* in
bloom near Mo. Valley,
collected plants at Sta. 1 to 2 & at 3,
and also on north slope.

June 12 - 1909 Saturday
Left at 9.30 & took C. & W.
for River Sioux.

June 13 - 1909
Reached River Sioux at
On bottom prairie between Mo. Valley
& Calif. Jr. saw very many
Quercus canadensis (very, very common) & *Phlox*
pilosa in flower
also lvs. of *Silphium laciniatum*
Artemisia ludoviciana lvs.
Rumex crispus fls.
Agrostis fls.
Allium canadense fls.
at River Sioux - on prairie flat,
Sisymbrium officinalis
Eclipta alba
Hordeum jubatum
Lepidium apetalum

81
Had E. W. McQueen drive me to
Murray Hill. collected plants
on afternoon - Kansan ridge &
above it on loess. The latter
had been burned over, & there
were fewer plants, but
practically all were also on
afternoon, etc.

at the point where the
Kansan, Loveland & loess
meet on the east front of
point $\frac{1}{2}$ way up, there
is a splendid bed of
Pentstemon grandiflorus in
fine flower.

It is again noticeable that
all slopes are uniformly
fresh & green, though the
grasses, etc. are tufted, - at

(Anemone comosa in fine
flower along river)
Close range.

Returns to Gros, Valley at
2.15 PM & drove to Cox's.
No one at home. Took bus.
Then drove to Snyder's Hollow
& collected plants. Found
cuckoo elm!

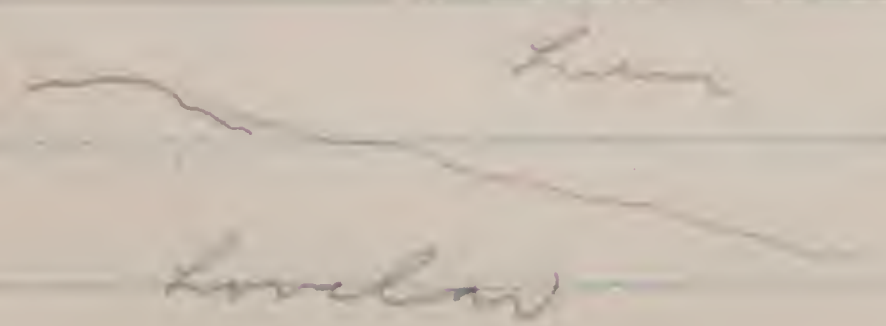
In evening went on Smith
ridge & to Cullerain's.
At night pressed plants
until 1 AM.

June 14

Station H.

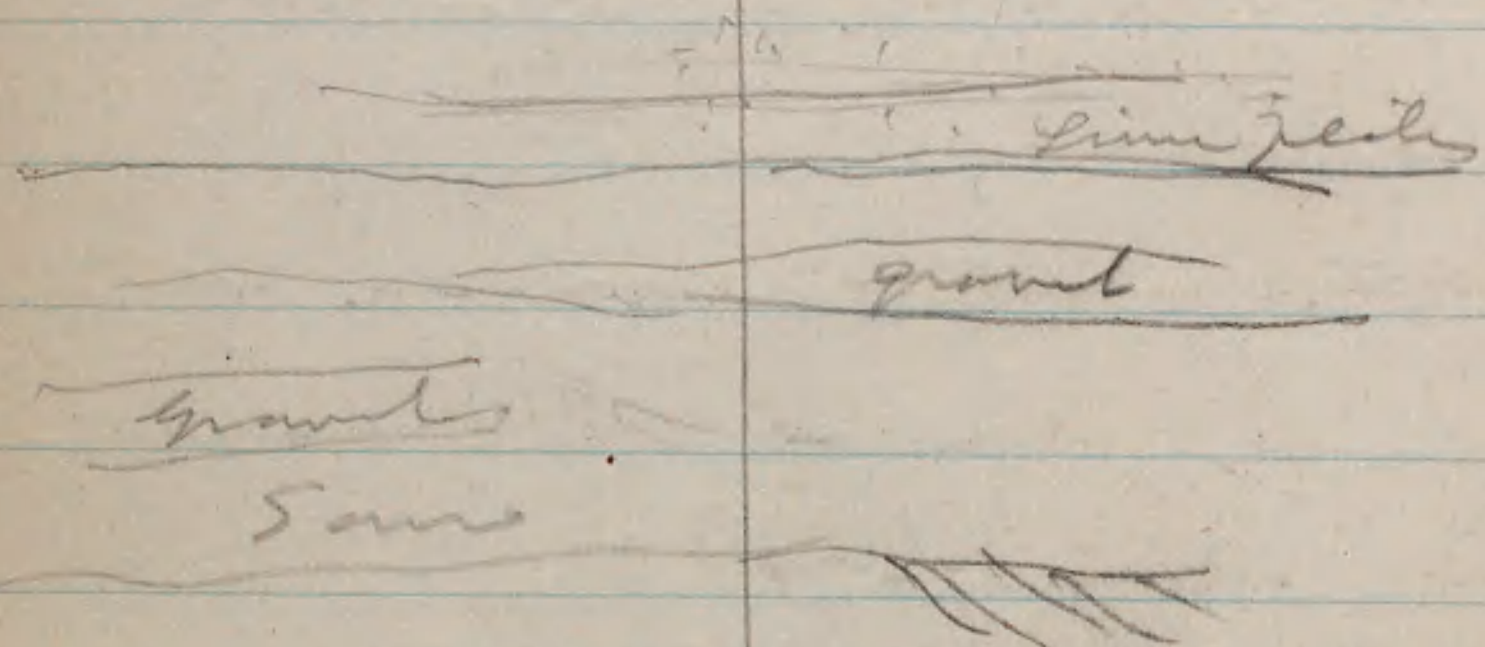
Just S. of first house north (80 rods)
of Snyder's Hollow there is a
bank showing Kansan below.
There was an old sand pit, but
too hard to get at
at 2nd house H., just S. of it,
Kansan also shows in bank.

In sec. 27-80-44 there is a bank
of loess at least 10 ft high
with trees above. But it is
definite & uninformative.



It is on E. side of road & above
bottom, on top of road

W. A. Robinson
The gravel pit is
located in —
It is full 40 ft above bottom
& is as follows:



alternately & intermingled
beds of sand & gravel the
sand with black streaks
(otherwise nearly white or yellow)
& well cross-bedded.

Shells occur in medium coarse
sand. Some

Phacina	Segmentaria
Prion	Planorbis
Limnaea (reflexa?)	Planorbis
amnicola	Unio
Valvula	

This is typical Afton, with
Kansan & Loess also.
Some of the gravel layers are
very red.
The upper part is much more &
sand.

In sand are "nodules" &
little layers of the fine
blue-white silts.

Soft white lime nodules occur.
This is the W. A. Robinson
pit. Post office Mondamin.
The Hagerman pit is below
This is Adolph Hagerman
of Mondamin.

Pit above spring in N. $\frac{1}{2}$ of 16-80-44
There is a great mass of Kansan
shows far up hill.

Cut! N. of Owen - sec. 29 -
is road cut in yellow loess -
light of Mississippian type.

See shells.

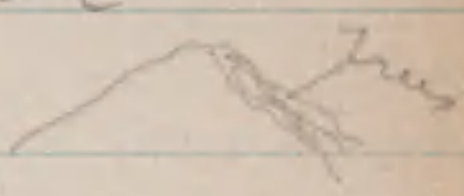
This is about $\frac{1}{2}$ way up the slope.

81-44
In sec. 20 E. of Little Sioux

At base, at valley edge, Kansan
shows. In first big cut on left,
 $\frac{1}{4}$ way up, blue part Kansan loess with
tubes. The next two cuts show
heavy bluish loess. On top Mississippian
loess, + on E. side, down at cross roads,

Plots

2- Murray Hill - looking N. of E.

2- Hill & church - Prigah
looking N. Prigah - 

7+8 - looking S - Prigah

1 - looking S - along bluff - Prigah

2 - " N. across valley

This is only a little above bottom loess, at end
of deep creek gulch
The pit on S. side of creek near
church - in sec. 26-81-44 -

is typical, - blue Kansan above
2 or 3 ft. clean, then about 6-8 ft
of mixed stuff (Kansan?)
The sand is medium coarse, &

shows a few fragments of (probably)
Sphaerium - 5 ft. of sand (shale)
limy & pebbly layer (oxidized)
between Kansan & Aftonian

In sec 3-80-44. It cut in
several feet (5-10) deep & shows
yellowish loam above & below,
& blue loam with iron clonings,
etc. means fort.

The next cut S. is all in a brown
yellow loam, like Fort Snare.
Some nodules of a brown fragment
of shelly.

Cut at Fort Snare, S. is 10-15 ft deep &
lower 5-6 ft shows beautiful concretion.
Saw a few. Shells. & some all nodules.
This is the heaviest yellow (almost
transition) loam.

The valley of creek which I
followed to Miami valley
become very narrow above
mouth.

May 26 - 1909

- Oryzopsis gracilis* fr.
- ✓ *Poa pratensis* fr.
 - ✓ *Lepidoglossis capitata* fr.
 - ✓ *Lepidoglossis pinnatifida* fr.
 - ✓ *Amorpha canescens* fr.
 - ✓ *Sisymbrium* fr.
 - ✓ *Penstemon hirtus* fr.
 - ✓ *Eryngium yuccifolium* fr.
 - ✓ *Aster laevis* fr.
 - ✓ *Cirsium discolor* fr.
 - ✓ *Lactuca canadensis* fr.
 - ✓ *Achillea millefolium* fr.
 - ✓ *Eupatorium americanum* fr.
 - ✓ *Oenothera biennis* fr.
 - ✓ *Helianthus annuus* fr.
 - ✓ *Oenothera lutea* fr.
 - ✓ *Rosa carolina* fr.
 - ✓ *Blitum* fr.
 - ✓ *Panicum capillare* fr.
 - ✓ *Glycine* fr.
 - ✓ *Oxalis stricta* fr.
 - ✓ *Taraxacum* fr.
 - ✓ *Rudbeckia hirta* fr.
 - ✓ *Albizia juliflora* fr.
 - ✓ *Lespedeza bicolor* fr.
 - ✓ *Lespedeza virginica* fr.
 - ✓ *Viola pedunculata* fr.
 - ✓ *Viola pubescens* fr.

- Gizipia* fr.
- ✓ *Helianthus annuus* fr.
 - ✓ *Potentilla canadensis* fr.
 - ✓ *Caryophyllus* fr.
 - ✓ *Salix humilis* fr.
 - ✓ *Arenaria cylindrica* fr.
 - ✓ *Urtica dioica* fr.
 - ✓ *Potentilla arguta* fr.
 - ✓ *Fragaria* fr.
 - ✓ *Ceanothus* fr.
 - ✓ *Astragalus canadensis* fr.
 - ✓ *Helianthus rigidus* fr.
 - ✓ *Rhus glabra* fr.
 - ✓ *Antennaria* fr.
 - ✓ *Comandra* fr.

May 21-1909 - To Amana
 walked through woods to Dutch Lake.
 Found wh. Oak on clay & yellow
 oak on sand. Found *Lepidopodium*
paniculatum & *Orchis spectabilis* just
 partly opened. Grounds clayey
 in fine fruit (mostly green).
Viola pedata was very common
 in the oak openings on sandy hills.
 In the boggy bottoms *Calla*
 & *Ornithoglossum* were very
 abundant. In the following lists
 the plants (not trees) listed were
 in flower unless otherwise stated.
 Of the trees, ^{shrubs} those marked x fl.
 were in fl.

On the bottomlands (N. side)
Phlox divaricata was common -
 in patches

Amana Prairie - N. side river.
Senecio *lanceolatus*
Carex pennsylvanica fruit, - some fl.
Syrphidum angustifolium -
Rosa arkansensis - in leaf.
Viola ^{edentata} *pedata*
Erigeron
Baptisia bracteata *bracteata* - in leaf -
Phlox pilosa mostly bud.
Antennaria
Zizia aurea - mostly bud.
Hyssopus *officinalis*
Eryngium yuccifolium (juv.)
Anemone canadensis - in bud.

Bugs in woods S. of river.
At the Palestine - fl. & fr.
Onoclea sensibilis - old fruit -
Cardamine rhomboides - fl.
Thalictrum purpureum - in leaf.
Saxifraga -
Elder berry - in leaf (small)

Bottoms N. of river,

x *Q. macrocarpa* *gutturata*

Sept maple-fr. Honey Doves

Am. elm-fr. zone.

Salix amygdaloides - fr.

1. *maris* - flower

11 longifolia - flower

Black Pine - fr.

Sycamore - juv. leaf.

Crab. - fl.

Crataegus mollis - fl.

Green ash - fls. gone.

Rhus toxicodendron - juv. leaf.

The brooks are fine
forest trees.

Superior Col. 1897

Hesperis erecta - fl. und.

Podocarpus neriifolia - fl.

(Prater ridges Aquilegia - fl.

Butterfly source - fl.

Campanula medium fl.

Sisymbrium angustifolium fl.

Erythraea senticaria - juv. leaf.

Phlox pilosa - bud & fl.

Ranunculus fascicularis - fl

Car. haughtii - fl. & fr.

Oxalis violacea - fl.

Antennaria plantaginifolia - fl. & fr.

Salix humilis - fr.

Achillea millefolium (juv.)

Aster pericens (Zinn)

Romarkhausen (Zur)

Pinus (sine) - fl.

Viola pinnatifida - Fl. 11

Castilleja coriacea - fl
Fragaria - fl.

Phlogotheca - fl.
Pedicularis canadensis - fl.

Brasenia crepitans (Linn.)

N. of Hamstead - S. of river
wood

Amarna - May 21 - 1909

- x *Q. macrocarpa* fl. Red elm
- x " *velutina* fl.
- x " *alba* - fl.

Populus tremuloides - fr.

Prunus serotina - bud.

Vitis vulpina - bud.

Carya alba - buds opening

Corylus americana - past fl.

Cornus paniculata - buds.

- x *Prunus virginiana* - fls.

Prunella
amelanchier *gummi* - leaf.

Prunus americana - buds.

- x *Ribes missouriense* - fl.

Celtis occidentalis - leaf just coming.

- x *Pyrus ioensis* - fl.

Rubus occidentalis - leaf.

Salix americana - juv. leaf

Rhus glabra - rare
" *copallina* - common, leaf

First flowering plants - S. side river

- Geranium maculatum* fl.
- Oleum* *reptans* fl.
- Osmorhiza* (hairy) fl.
- Trigonotis* - fl.
- Smilacina racemosa* buds
- Rubus villosus* - buds
- Viola pubescens* frs
- actaea alba* - fl.
- Arumella thalict* fl.
- Adiantum* *pedicellatum* - fr.
- Onoclea* *claytonii* - fr.
- Protophylla* - fl.
- Orchis spectabilis* fl.
- Matrydium virginicum* - juv. fruit.
- Anemone nemorosa* - fl.
- Cryptotaenia* *perfoliata* - juv. fr.
- Anemone* *trifolium* fl.
- Aspidium* *opulens* - juv.
- Cystopteris* *fragilis* - fl.
- Asplenium* *thelypteris* - juv.
- Urtica* *gracilis* - fl + fr.
- Viola cucullata* - fl.
- Pteris* *aculeata* - juv.
- Cystopteris* *fragilis* -

Pits & some exposures
~~near~~

McGowan pit Between Logan & Mo. Valley

Cox pit

Snyder's Hollow

~~Logan~~
 Woodbine

Allen ex.

Magnolia

Soldier.

Pingah.

Mo. Murray Hill

County line

Between Co. line & Turin

Maple

Turin

Castana

E. of Maple

W. of Maple

McClary.

Between Turin & Castana

Weniger

Above Turin

Below Rodney

Weniger pit

Opposite Rodney

Woodmont glen.

Above Grand Center

Evidence that deposits is
Aftonian + not outwash,

1. Considered position between
sub-Aftonian & Kansan.

County line exposure.

Thurin

Woodworth glen

Castana

2 - or at least below Kansan.

Cox pit

Peyton pit

Logan pit

Weniger pit

Grand Center to Rodney.

Mapleton - E.

Castana

River Gorge (Wallace pit)

3 - Spawning exception

Logan pit

Penneron pit

4 - Plowing by Kansan

W & A arm

Woodbine

Murray Hill

Peyton pit

5 - Cuts with back.

Logan - wall.

Cox pit -

Wallace pit

Griffin well.

Muscatare co. May (1909)
 on sand banks & dunes at
 Adams

Vicia cucullata
Achillea
Oenothera biennis?
Ambrosia artemisiifolia
Hordeum pusillum
Elymus (big one)
Ambrosia psilostachya
 (Marrubium? -)
Verbascum thapsus
Mullein
Ambrosia trifida
Rumex acetosella
Lepidoglossis capitata
Cirsium
Cnicus (softish, but not)
Panicum (small hairy)
Cassia chamaecrista (?)
Capsella bursa-pastoris

Geranium carolinianum
Polanisia trichosperma
Equisetum hyemale
Artemisia
 " - *glaucophylla*
Rosa arvensis
Equisetum
Andropogon scoparius
Brachyotum
Oenothera biennis
Sisyrinchium albidum
Senecio balsamifolius
Antennaria
Oxalis violacea
Vicia pedata
Zanthoxylum
Vicia sagittalis
Rumex crispus
Hieracium

Potentilla canadensis
Syntherisma buccii
Salix humilis
Aquilegia canadensis
Pitilium
Clematis crispa

Saw mound (starting in town)
 those marked X are in both counties
 M. = Muscatine - L. = Leona -

X *Monarda* — Very com.
 X *Anemone canadensis* — local
 X *Lepidogon carolinense* — very com.
 X *Solidago* — very com.
 X *Eryngium yuccifolium* — scatter
 X *Draba* — scatter
 X *Rhus typhina* — clumps.
 X *Rosa carolina* — clumps & scatter
 X *Panicum* (turf) *Panicum* (low, broad) very com.
 X *Mertensia* (blue fl.) scatter
 X *Cornus canadensis* — com.
 X *Oxalis violacea* — scatter
 X *Lonicera* — scatter
 X *Kuhnia* — scatter common
 X *Coryx* — scatter (see spec.)
 X *Antennaria* — in rock
 X *Aschillea* — com.
 X *Verbascum thapsus*
 X *Thalictrum* — scatter
 X *Viola pubescens*, scatter & in field.

The sand mound is about 3 miles
long & a mile wide.
Its W slope is quite abrupt
& well defined. Above it
is flat but wavy & low dunes,
& then slopes down to river.
Pine holes appear here. Then
where shrub land gets a hole
a heap of sand is gathered, or
little mound or knoll.
In bottom of big Glacis
fables - showing the main
part of mound in some
cases - worked over on surface
by wind.

Top of mound mostly cultivated
(now or has been) - top / W

side only pastured
on the front N.E. slope the sand
is mixed with black soil

On N. & E. sides on Glacis
the trees are at intervals,
but trees are damaged.

- | | | |
|---|----------------------------|--------------------|
| | Juglans | |
| + | Fraxinus | |
| x | Prunus | Rhus Toxicodendron |
| x | Quercus | Celastrus scandens |
| x | Platanus | Staphylea trifolia |
| x | Ulmus americana | |
| x | Celtis | |
| x | Juniperus (C. scopulorum?) | |
| x | Encyonema atropurpureum | |
| x | Prunus americana | |
| x | Rosa virginiana | |
| x | Psedera | |
| M | Toothosia americana | |
| M | Smilax latifolia | |
| M | Carya amara | |
| x | Eximolobos americana | |
| | Also a few timber plants | |
| x | Smilacina stellata | |
| M | Polypodium virginicum | |
| x | Asplenium | |
| M | Scrophularia umbellata | |
| M | Vicia cucullata | |
| x | Salix pyramidalis | |
| M | Onoclea sensibilis | |

on the side there is much
drifting sand, (low holes
(large) —

One of these shows boundary
with laminated sand.



Following contour

In this sandy part are clumps
of Winter honey locust —
some in very exposed places.

Another part shows cross-bedding



(This part is in Lorain co)

At S. end of lake is an almost
detached mound capped with a
row or belt of trees.

Urtica	grinifera	} most abundant & evidently not over 100 years old.
Achillea	canadensis	
Peppermint	alba	
Honey locust	gracilis	
Ribes	montanum	
Haskins	montanum	

Belt is about 2 mds wide &
sand has drifted in to
make a high ridge (15 or 20 ft)
Honey locusts are very
few in between belt &
river.

Distinct over the lake, &
part way up slope, coarse
sand has been heaped up
into little ridges on fine
sand, like Chicago sand dunes
case). Toward river.

all along foot of bank at
N.E. timber point there is
a lot of hummocks,
evidently blown off sand
mounds.

The fence running W. from S. end
of lake is nearly covered with
sand. It has built up a
ridge 4 or 5 ft. high & a
rod or two wide all the way.

The old post just stick out of sand, &
a new fence has been put in on top
all the fences on the mound, N. & S.
as well as E. & W. have had the
same effect.

Noticed one lone cottonwood
on top.

I came out 2 miles S. of Es. Lino.

The most common windbreaks on the
Island are Pines; Austrian,
Scotch & White.

Found *Viola sagittata* in sandy
soil at base of mound.

I also saw fragments of what I
took to be the following.

Artemisia	arvensis
"	dracunculoides
Synedra	-
Leptilon	canadensis
Oenothera	oblongifolia ? - (see note)

Gilders clams (see book E.)

Unio occidentalis

" *rectus*

" *luteolus*

" *alatus*

" *ligamentinus*

" *plicatus*

" *metanev* (*wardii*)

" *undulatus*

" *anodontoides*

" *subquinosus*

" *lachrymosus*

Margaritana complanata

June 12 - 1909

RR to Cedar Rapids .50

RR to River Sioux 5.35

River Sioux team ^{1st} 2 meals ⁵⁰ 1.50

RR to Mo. Valley .45

June 14 -

Meal Pisgah - ³⁵, team ³⁵ .70

Mo. Valley # 5455 2.00

Account 1909

Apr. 9 - Fare to Fairfield	\$7.61
Fairfield to Malvern	4.12
Apr. 10 Hotel	.50
at Malvern - Hack ¹⁵ RR to Malvern ³⁵	.50
" Malvern - Hotel ⁷⁵ RR to Glenwood ²⁰	.95
" Glenwood - Hotel ⁷⁵ RR to ²⁵	1.00
" RR to Co. Bluffs	.38
" Co. Bluffs lunch	.25
" RR to Iowa City	
Meal en route	.55
RR to Hentons	.26
(Lunch Parisi Jr.	.25)
RR to Co. Bluffs	.38
RR to Iowa City	5.24
	<hr/> 15.99
	4

Account 1909 - To Hamer Co

May 13 - Fare to Cedar Rapids ⁵⁰	.50
" 14 - RR to Mr. Valley	4.89
" Hotel Miller ^{1.50} Livery ^{2.50}	4.00
RR to Iowa City	.77
May 15 - Hotel ²⁵ Hotel ^{1.00} - Orono	1.25
RR to Zumbina	.14
Lunch ²⁵ Mapleton ²⁴	1.25
May 16 - Lunch	.53
Dinner ⁵⁰ Livery ³⁵ & Wte	.85
at Mapleton - Hotel ^{1.50}	1.50
Livery	2.50
Fare to Cedar Rapids	4.81
Lunch	.20
Fare to Iowa City	.50
Hack	.25

Expenses - June 3-7-1909

June 3 - Fare to Crow Rapids .30

Fare to Steamboat & return 1.18

June 4 Hotel Crow Rapids, ^{1.50} ²⁰ 1.70

Fare to Manhattan 1.40-

Fare to Rolans .67

Team to Story City (1.50)

June 5 Story City to Mo. Valley 3.48

Breakfast ⁵⁰ Team ^{1.50} Cocks & Cuffs ⁵⁰ 2.50Shirts ⁸⁰ Underclothes ^{1.00} - socks ¹⁵ 1.95Indian boxes ⁵⁰ Stamps ⁴⁵ 5.45

Fare to Fremont .95

" " Clarion 1.05

June 6 - Fare to Fremont 1.04

" 7 - Breakfast ²⁵ " Fare to Mo. Valley ^{1.53} 1.78Dinner Mo. Valley ⁵⁰ Team ^{1.50} 2.00

Fare to Iowa City 5.24

Supper .75

467
219
248
496

Iowa City to C.R. .65

C.R. to Mo. Valley 4.96

Mo. Valley to Fremont .95

Fremont to Clarion .48

Clarion to Union .56

7.60

2 meals

1.00

8.60

\$ 17.20

3.38 ✓

1.50 ✓

3.44 ✓

~~2.50~~

2.07 ✓

2.00 ✓

1.04

50.13.47

270 6.90

320 20.37

6.40

1.50

6.9025
20
5
65
65.00
20.37

44.63

Missouri Trip - May 8 1907

RR. to Nichols 44
 " " Muscatine (Payroll) 15
 Hotel " 50
 Lunches " 50
 Other expenses 2.00
 RR. To Iowa City 1.04

Mr. Geo. Fisher
 eastman, Jr.
 Mr. Art. Elliott
 Whitney, Jr.

Mapleton

C. F. Griffin, Jr.
 Chas. J. Whiting - Elephas tooth
 T. E. Williamson No. W. of Mapleton
 Bone tooth of Mastodon
 Mr. Whiting has it &
 W. E. Dickerson - well-digger
Smithland
 A. M. Turman, Jr.

Pisgah

Geo. Peyton.

Missouri Valley

C. H. Duer. H. R. Newton & Co. cement
 W. C. Hechert. J. S. Wattles
 Miss Clara Perkins
 steen Smith
 Claude Cox G. H. Longman (Farm)
 John Parker

Logan

Lowery Moreland } well diggers
 David Laysham }

Woodbine

Theodore Warren
 Ed. Holton

Quana

Mr. Mitchell Vincent
 Judge Addison Oliver (trees)

Castana

John S. Ordway (collarwood)
 David Tacey.

Whiting - Hon. Will Whiting wants:

acromore	onoclea striatop
Synedra	aspidium speciosum
Isopyrum	asplenium filix foem
Mertensia	aspidium acrostichoides
Polemonium	Adiantum

Irwin

Barcock, W. E. -
 (see that he gets photos)
 did not get them sent

20

15

14

47

2

173



Hotel Metropole

E. E. COLE, Proprietor

FARGO, NO. DAK.

Fargo's Commercial Hotel. Centrally Located. Rates \$2, \$2.50 & \$3

The DELAVAN

American Plan CEDAR RAPIDS, IOWA

Elegant rooms, 25 rooms with bath.
Up-to-date modern hotel, centrally lo-
cated, adjacent to all railway stations and
business center, complete in every detail.
Large and well lighted Sample Rooms.
Rates that are reasonable. Cuisine above
average. Unremittive personal attention
the part of the management and every
employee. New elevator. Enlarged office.
BEST \$2 A DAY HOUSE IN THE CITY.
F. M. YOUNG, Proprietor and Manager.



Holden House

Northeast Corner of
Public Square

John Robrahn
PROPRIETOR

Marengo, Iowa

Sample and bath rooms. Electric and gas lights. Rates \$1.25 Per Day

NEW COMMERCIAL HOTEL

J. L. THORNTON, Proprietor DEXTER, IOWA

Good Rooms, Good Meals and Good Service

Rates, \$2.00 Per Day

CHICAGO ROCK ISLAND & PACIFIC RAILWAY.

Rock Island to Omaha

TABLE

WEST.					Miles.	STATIONS.		WEST			
No 17 Exp	No 19 Mail	No 5 Exp	No 81 Frt.	No 15 Pass		U. S. Express. April 18, 1909.		No 9 Pass	No 7 Ltd	No 63 Pass	No 83 Frt.
A.M. a 2 15	P.M. a 4 15	P.M. a 10 32		A.M. a 7 00	0	Population	lv	P.M. a 10 00	A.M. a 9 15		
A.M. 6 90	P.M. 9 25	P.M. 3 15	A.M. b 7 30	P.M. b 3 00	181	lv	Rock Island	lv	A.M. 2 25	P.M. 1 50	A.M. b 9 50
6 40	9 35	9 25	7 40	3 10	183	lv	*Davenport 39797	lv	2 35	2 00	10 00
					187		Farnam				
					191		Turnout				
	† 9 58		8 30	3 36	195		Walcott				10 26
	† 10 05		† 8 45	3 43	199		Stockton				10 35
	† 10 10		9 05	3 49	202		Durant				10 41
7 18	10 20		9 30	3 59	208		*Wilton				10 53
			9 45	4 05	211		Moscow				10 59
	† 10 34		10 07	4 13	216		Atalissa				11 08
7 39	10 44	4 35	10 45	4 25	221	ar	West Liberty 1623	ar	3 35		11 20
			† 11 05	4 35	227	lv	Downey	lv	3 40	3 05	11 35
											11 45
8 03		5 00	12 05	4 53	237	ar	*Iowa City 8497	ar	4 03	3 30	12 05
			† 1 00	5 07	245	lv	Tiffin	lv			12 22
			1 45	5 20	252		Oxford				12 37
			2 20	5 31	257		Homestead				12 50
			3 08	5 40	262		*South Amana				1 00
8 47		5 57	3 45	5 53	267		Marengo				1 12
			4 26	6 05	274		Ladora				1 24
† 9 05			4 55	6 17	280		Victor				1 37
			† 5 05	6 22	283		*Carnforth				1 43
9 20		6 35	5 30	† 6 30	288	ar	Brooklyn 1207	ar			1 55
				6 50	294	lv	Malcom	lv			b 7 15
9 43		7 00		7 05	303		*Grinnell 4634				2 10
				7 20	309		Turner		5 36	5 12	7 45
† 10 00				7 30	314		Kellogg				8 25
10 15		7 35		7 39	323		*Newton 4398				† 2 33
				7 55	329		Metz		5 40		† 9 05
10 33		7 55		8 05	335		*Colfax 2553				10 00
				8 15	341		Mitchellville 755				3 00
			No 85 Local Frt.	8 27	347		Altoona				† 12 15
11 10		8 40		8 38	358	ar	E. Des Moines				12 57
11 23		8 45		9 00	363	lv	Des Moines 75626	ar			3 35
11 40		9 02	A.M. b 7 35		366	lv	Valley Jc. 2009	lv	7 00	6 40	4 07
11 47			7 50		373		Commerce		7 08	6 45	4 10
11 58			8 15		377		Booneville		7 25	6 45	4 23
12 05			8 55		380		Van Meter		7 32	7 05	4 40
12 11			9 31		387		De Soto		7 44		4 48
12 27			10 18		393		Earlham		7 52		5 02
12 37			10 52		398		Dexter		7 57		5 10
12 50			11 30		398	ar	Stuart 2046	ar	8 12		5 17
12 50		10 03	b 7 00		403	lv	Stuart 2046	lv	8 23		5 33
1 00			7 30		410		*Menlo		8 35		5 45
1 15			8 05		418		Casey		8 45		5 55
1 30			8 45		426		Adair		8 58		6 05
1 47			9 50		433		Anita		9 14		6 17
2 00			10 20		440	ar	Wlota		9 28		6 30
2 15		11 11	11 10		446	lv	*Atlantic 5180	ar	9 38		6 45
2 27			12 05		453	lv	Marne	lv	9 53	9 05	7 05
2 38			12 30		459		Walnut		10 07		7 23
2 50			12 55		461	ar	*Avoca 1815	ar	10 20		7 36
			1 30		467	lv	Harlan Junction	lv	10 35		7 50
3 05			2 15		474		Shelby				8 03
3 16			2 50		478		Minden				8 22
3 25			3 25		484		*Neola				8 35
3 34			† 3 50		488		Underwood				8 47
3 43			† 4 10		494		Weston				8 58
					499		Chatauqua				9 08
4 10		12 50	4 45		501		*Council Bluffs 25231				9 35
4 15		12 55			508		U. P. Transfer		12 10	10 37	9 40
4 30		1 10			508	ar	*Omaha 102555	ar	12 15	10 50	9 55
									12 30	11 05	8 15

For time between Chicago and Rock Island see page 226

The HISE HOUSE is the hotel at West Liberty, Iowa.

NOTICE TO COMMERCIAL MEN

THE NEW WEST HOTEL IOWA CITY, IOWA

THOS. METCALF :: PROPRIETOR

A home for the boys, where you can feel at home and get good treatment, good meals and a good room, and a clean bed to sleep in, with hot and cold water in every room. Bath and toilet on the same floor, give us a trial and convince yourself that The New West is the place to stop when in Iowa City. Across the street from the Rock Island passenger depot.

CHICAGO, ROCK ISLAND & PACIFIC RAILWAY.

Omaha to Rock Island

TABLE 180

GOING EAST.					Miles	STATIONS. U. S. Express Co. April 18, 1909.	GOING EAST.				
No 18	No 20	No 6	No 64	No 8			No 16	No 82	No 84	No 14	No 10
Pass.	Exp.	Exp	Mail	Mail			Pass.	Frt	Frt.	Pass	Pass
A.M.	A.M.	P.M.	A.M.	A.M.			A.M.	A.M.	A.M.	P.M.	P.M.
		a 4 40	b 11 00	a 3 00	0	lv *Omaha lv	a 7 00			a 6 08	a 4 00
		4 55	11 15	3 15	6	U. P. Transfer	7 15			6 23	4 15
		5 05	11 25	3 30	7	*Council Bluffs	7 25	b 7 00		6 30	4 20
					12	Chautauqua					
			11 45		17	Weston	7 50	† 7 50			4 39
			11 55		22	Underwood	8 00	† 8 15			4 47
			12 12		27	* Neola	8 10	8 45			4 55
			12 23		33	Minden	8 18	9 15			5 05
			12 37		40	Shelby	8 30	9 50			5 18
					42	Harlan Junction					
		6 15	12 55		48	* Avoca ar lv	8 45	10 35			5 35
			1 10		55	Walnut	8 57	11 30			5 45
			1 25		61	Marne	9 10	12 05			6 00
		6 52	1 45	5 10	68	* Atlantic ar lv	9 25	1 10		8 18	6 15
			2 00		75	Wiota	9 38	2 00			6 30
			2 14		83	Anita	9 50	2 45			6 45
			2 30		90	Adair	10 05	3 30			7 00
			2 45		97	Casey	10 22	4 00			7 14
			2 58		102	* Menlo	10 32	4 25			7 30
			3 10	6 20	107	Stuart ar lv	10 42	4 50			7 42
			3 22		113	Dexter	10 52	b 2 00			7 55
			3 34		121	Earlham	11 03	2 30			8 07
			3 50		124	De Soto	11 19	2 52			8 22
			3 57		128	Van Meter	11 25	3 20			8 30
			4 05		134	Booneville	11 33	3 37			8 37
			4 17		188	Commerce	11 47	4 05			8 50
		9 15	4 30	7 20	143	Valley June	11 58	4 48			8 58
b 6 45		9 27	4 40	7 35	154	* Des Moines ar lv	12 10	5 10	b 8 00	10 28	9 10
6 47		9 35	4 50		160	E. Des Moines	12 15		8 20	10 40	a \$1 00
7 07			4 52		166	Altcona			8 30	10 50	
7 18			5 13		172	Mitchellville	12 46		9 05		1 23
7 32		10 17	5 25		178	* Colfax	12 57		9 35		1 34
† 7 45			5 37		183	Metz			10 33		1 45
7 55		10 37	5 50	8 38	192	* Newton	1 17		† 11 00		† 1 55
8 08			6 05		198	Kellogg	1 33		11 50		2 05
† 8 17			6 23		207	Turner			12 30		2 28
8 25		11 10	6 33	9 15	213	* Grinnell	1 55	No 82	† 1 05	12 18	† 2 37
8 38			6 48		218	Malcom	2 10	Fght.	2 24		2 50
8 50		11 35	7 05		221	Brooklyn ar lv	2 20	A.M.	† 2 15		3 05
8 58			7 17		227	* Carnforth	b 6 40		4 00		3 15
9 05			7 30		233	Victor	† 7 02				† 3 25
9 17			7 36		238	Ladora	2 35	7 15			3 30
9 32			7 48		244	Marengo	2 46	7 40			† 3 39
9 43			8 00		249	* South Amana	2 58	8 15			3 52
9 55			8 13		256	Homestead		† 8 40			
10 07			8 26		264	Oxford	3 18	9 05			4 10
10 20			8 35		274	Tiffin	3 28	9 25			4 23
10 40		1 05	8 48	11 00	279	* Iowa City ar lv	3 43	10 46		2 15	4 40
10 58			9 05		285	Downey	4 00	12 05			5 00
11 10			9 23		290	* West Liberty ar lv	4 17	† 12 50			5 20
11 30	a 2 25	1 30	9 35	11 25	293	Atalissa	4 30	1 40		2 40	5 30
11 42			9 45		299	Moscow	4 40	2 05		2 50	6 00
11 53			9 57		301	* Wilton		† 2 30			6 13
12 10			† 10 05		306	Durant	4 57	2 58			6 23
12 16			10 12		318	Stockton	5 07	3 20			6 32
12 24			† 10 28		320	Walcott	5 12	† 3 35			6 43
1 00	3 25	2 35	10 36	12 25		Davenport	5 20	4 00			6 49
1 10	3 35	2 45	11 05	12 35		Rock Island lv	5 45	5 05		3 52	7 29
7 35	8 01	7 25	7 03	4 59		Chicago ar	5 55	5 15		4 02	7 37
							10 25			8 58	

For time between Rock Island and Chicago see page 227

The HISE HOUSE is the hotel at West Liberty, Iowa.

Naturally

If you want the best hotel in

Iowa City

THE ST. JAMES

is the hotel to go to, because the meals are best, the rooms are good and the management courteous and accommodating

Rates \$2.00; With Bath, \$2.50 to \$3.00

J. A. Schiller, Manager

CHICAGO, ROCK ISLAND & PACIFIC RAILWAY. Minneapolis & St. Paul to Burlington. TABLE 181

GOING SOUTH.					Miles	STATIONS.		GOING SOUTH.				
No 20	No 414	No 66	No 22	No 32		U. S. Express Co.		No 80	No 68	No 432	No 82	No 88
Pass	Pa	Pass	Pass.	Pass.		May 9, 1909		Frt.	Pass	Pass.	Frt	Frt
P.M.	A.M.	P.M.	P.M.	A.M.		Leave.	Leave.	A.M.	A.M.	P.M.	P.M.	P.M.
a 3 00			a 7 30	a 9 10		Minneapolis						
3 35			8 05	s 9 45	10	St. Paul						
3 55				10 00	18	New Port						
† 4 05				† 10 05	20	Inver Grove		b 5 30				
4 25			8 42	10 28	31	Rosemount		6 30				
4 38			8 56	10 42	38	Farmington		7 08				
4 50				10 54	45	Castle Rock		7 45				
5 02			9 19	11 06	51	Northfield		8 20				
5 08				11 12	54	Dundas		8 48				
					57	Comus		9 15				
5 29			9 45	11 32	58	Faribault		10 30				
5 45				11 48	65	Medford		11 10				
5 57			10 10	12 02	74	Owatonna		12 02				
6 21				12 27	81	Ellendale		1 47				
6 35				12 41	96	Clark Grove		2 30				
† 6 50			10 58	† 12 55	112	Ar Albert Lea		3 00				
7 10			11 03	1 15		Lv Albert Lea Joint Sta.		b 6 45				
						Glenville		7 20				
7 22				1 27	119	Gordonsville		7 35				
7 31				1 36	124	Northwood		8 00				
7 43			11 30	1 47	129	Kensett		8 25				
7 55				1 59	136	*Manly		8 55				
8 04				2 10	140	*Plymouth Junction		9 15				
8 13				2 20	145	Rock Falls		9 30				
8 19				2 26	149	*Nora Springs		10 00				
8 32			† 12 10	2 38	154	ar *Rockford	ar	11 21	b 5 55			
8 50			12 26	2 53	161	lv Marble Rock	lv	12 05	6 15			
9 04				3 07	169	Greene		12 35	6 26			
9 15				3 20	175	Packard		† 1 00	† 6 33			
† 9 23				† 3 28	181	*Clarksville		1 25	6 45			
9 35				3 40	186	*Shell Rock		1 50	6 58			
9 49				3 54	193							
9 40			1 00	3 42		ar *Waverly	lv		6 45			
9 55			1 15	3 57	210	lv Waverly Jct.	ar		7 00			
9 58			1 21	4 02	197	*Waverly Junction		2 10	7 07			
† 10 03				† 4 07	200	Winslow		2 25	7 13			
10 18			1 38	4 23	209	*Cedar Falls		3 30	7 28			
10 35			1 53	4 40	215	*Waterloo		4 00	7 45		b 1 20	
† 10 48				4 54	222	Washburn			7 57		1 40	
11 05				5 10	230	La Porte			8 12		2 05	
† 11 18				5 22	236	Mount Auburn			8 23		2 25	
11 35	a 12 08		2 40	5 36	244	Vinton			8 40	b 5 05	3 15	b 2 00
† 11 50					249	Shellsburg			9 02	5 25		3 00
† 11 58					257	Palo			9 12	5 35		3 25
					263	Linn						
12 20	1 02		8 20	† 6 20	268	ar *Cedar Rapids	ar		9 35	6 00	5 00	4 17
1 15	e 8 45	b 2 50	3 32	6 50	268	lv	lv	c 11 55	10 00	b 5 00		b 7 35
	9 03	3 07		7 07	276	Ely		† 12 43	10 17	7 21		8 10
	9 17	3 20		7 22	283	Solon		* 1 05	10 30	7 35		8 40
	9 27	3 31			288	Morse		† 1 23	10 40	7 45		8 55
	9 32	3 39		7 39	290	*Elmira		1 30	10 45	7 50		9 20
	9 35	3 46		† 7 42	292	Oasis			10 50			9 30
	9 43	3 56		7 51	295	West Branch			10 58			10 05
	9 48	4 03		† 7 57	298	Center Dale			11 03			10 15
2 20	10 00	4 15	4 32	8 10	304	ar *West Liberty	ar	† 11 15				10 35
		4 35	4 45	8 15	310	lv	lv	11 35				11 45
		4 50	4 58	8 30	318	*Nichols		11 48				12 30
		5 05	† 5 10	† 8 45	325	Cone		12 03			A.M.	1 00
		5 27	5 30	9 10	325	*Columbus Junction		12 20		b 8 35		1 55
		5 36			330	Bard Siding		† 12 30				† 2 10
		5 46	5 53	9 32	336	*Wapello		12 41			9 10	† 2 40
		6 00	6 08	9 52	342	*Morning Sun		12 55			9 40	3 20
		6 05			345	Linton		1 01			† 9 56	† 3 30
		6 15	6 25	10 07	350	*Medapolis		1 10			10 15	4 00
		6 24			354	Sperry		1 18			† 10 25	4 28
		6 30			356	Latty		1 23			† 10 32	† 4 38
		6 46	7 00	10 37	364	Jefferson St. Depot		1 40			11 00	5 05
			7 10	s 10 45		ar *Burlington	ar					
						St. Louis	ar					
8 01		10 25	11 43	7 03		ar Chicago	ar		4 59			

s—Trains Nos. 31 and 32 carry Minneapolis-Kansas City and Cedar Rapids-St. Louis sleepers.

No. 20 and 416 stop at stations where time is not given to leave passengers from west of Albert Lea or Estherville

NEAT

NEWTON HOUSE

NEW

See the Electric Sign

N. M. SPRINGER, Proprietor

Rates \$1.50 Per Day and Up

CLEAN

ALBERT LEA, MINN.

UP-TO-DATE

CHICAGO, ROCK ISLAND & PACIFIC RAILWAY
Burlington to St. Paul & Minneapolis. TABLE 182

GOING NORTH.					Miles.	STATIONS. U. S. Express Co May 9, 1909	GOING NORTH.			
No 65 Exp.	No 21 Exp.	No. 19 Twin City Exp.	No. 67 Cedar Rap's Pass.	No 31 Mail and Exp.			No 85 Way Frt.	No 407 Pass	No 87 Frt.	
	a 4 30 a 2 15	a 4 30		a 7 40		Chicago St. Louis				
						Population	A.M.	P.M.	P.M.	
b 6 00	a 9 05 9 15		b 9 15	s 4 20	9	lv * Burlington 25318 lv	b 6 55			
6 17			9 33		12	Jefferson St. Depot				
6 24			9 39		15	Latty 42	† 7 20			
6 33			9 47	4 47	20	Sperry 88	† 7 30			
6 42			9 56		23	* Mediapolis 852	7 50			
6 49			10 03	4 59	29	Linton 28	† 8 05			
7 03			10 18	5 12	35	* Morning Sun 981	8 30			
7 14			10 28		41	* Wapello 1393	9 10			
7 35	10 25		10 45	5 40	48	Bard	† 9 25			
7 48			10 58	† 5 53	55	* Columbus Junct 1127	10 05			
8 02	10 48		11 12	6 08	61	Cone	10 30			
8 15	11 00		† 11 25	6 25	67	* Nichols 390	12 05			
a 4 32	11 05	a 10 50	11 45		70	Ar * West Liberty 1623 Ar	1 10			
4 48	† 11 20		11 57	† 6 36	73	Lv Center Dale 16	† 1 30			
			12 03	6 42	75	West Branch 657	1 55			
			12 10	† 6 49	77	Oasis 130	† 2 10			
			12 15	6 55	82	* Elmira	2 40	b 7 00	b 12 30	
			12 20		89	Morse 144	† 2 45	7 05	12 40	
			12 30	7 08	98	Solon 402	3 20	7 22	1 05	
5 45	12 06	11 50	1 00	† 7 40	102	Ely 172	3 40	7 34	1 30	
b 8 10	a 12 35	12 20	4 15	8 00	108	Ar * Cedar Rapids Ar	4 15	7 50	2 00	
8 29	S		4 34		112	Lv Linn	b 7 00	b 6 00		
8 40	† 1 03		4 43		121	Palo 257		6 35		
9 05	1 20	1 00	5 05	8 40	129	Shellsburg 565		7 00		
			5 22	8 53	135	* Vinton 3487	9 15	7 40		
			5 33	9 05	143	Mount Auburn 291	10 00			
			5 47	9 18	151	La Porte 134	11 00			
			6 03	9 35	156	Washburn 79	11 40			
			6 18	9 50	165	* Waterloo 18071	12 15	b 10 00		
			6 31	† 10 04	168	* Cedar Falls 5329		10 40		
			6 38	10 12		Winslow 27		11 15		
			6 53	10 27		* Waverly Junction		11 35		
			6 38	10 12		ar * Waverly 3353 ar				
			6 47	10 21	172	lv Waverly Jct lv				
			7 00	10 34	179	* Shell Rock 848		11 55		
			† 7 10	† 10 43	184	* Clarksville 957		12 30		
			7 20	10 55	190	Packard	† 1 00			
			7 30	11 06	196	Greene 1224	1 30			
			7 45	11 21	204	Marble Rock 332	2 00			
		3 25			211	Ar Rockford 969 Ar	2 53			
		3 41			217	Lv * Nora Springs				
					220	Rock Falls 98	3 30			
					226	* Plymouth Junction	3 55			
					228	* Manly 327	4 15			
					230	Kensett 435	4 40			
					236	Northwood 1373	5 05			
		4 25			241	Gordonville 128	5 40			
					245	Glenville 351	6 10			
						Albert Lea Jnt Sta	No 81 Frt.	6 40		
		4 55		† 1 00	258	* Albert Lea 5657	A.M.	7 10		
		5 05		1 20	269	Clark Grove	b 7 00			
				1 33	284	Ellendale 252	7 47			
				1 47	291	Owatonna 5651	8 20			
		5 53		2 12	300	Medford 375	9 25			
		6 18		2 23	306	Faribault 8279	9 50			
				2 40	307	Comus	11 32			
					310	Dundas 399	12 01			
		6 45		3 00	313	Northfield 3478	12 15			
				3 08	320	Castle Rock 30	12 40			
				3 20	326	Farmington 867	1 05			
		7 08		3 34	333	Rosemount 254	1 50			
		7 22		3 48	344	Inver Grove 50	2 25			
				† 4 05	346	New Port	3 30			
				† 4 12	354	St. Paul 197203				
		8 10		4 25	364	Ar Minneapolis 261974				
		8 40		s 5 05						

Freight trains going north leave from upper yard at Cedar Rapids.

Hise House

West Liberty, Iowa

E. S. HISE Prop.

RATES: \$2.00 and \$2.25

CHICAGO ROCK ISLAND & PACIFIC RAILWAY.

Dows to Estherville.

TABLE 183

GOING WEST					Miles.	STATIONS. U. S. Express Co. Oct. 25, 1908	GOING EAST				
	No439 Mix'd	No 81 W. F.	No435 Pass.				Popu- lation	No436 Pass.	No438 Mix'd	No 82 Frt.	No 82 Frt.
	P.M.	A.M.	P.M.					P.M.	A.M.	P.M.	A.M.
		b 7 20	b 1 00	16	lv	*Dows	904	b 8 45		b 4 50	
		7 50	1 11	23		Rowen	242	8 27		4 25	
		8 30	1 25	31		*Belmond	1208	8 08		3 55	
		9 00	1 35	36		Goodell	245	7 55		3 20	
		9 35	1 46	42		Klemme	292	7 40		2 50	
						*Garner	1200	7 25	b10 15	2 02	
	b 3 00	10 25	2 02	48		Hayfield Junction			10 05		
	3 10			50		Hayfield	40		9 45		
	3 35			53		Crystal Lake	202		9 20		
	4 10			59		Woden	200		8 55		
	4 40			69		Titonka	245		8 30		
	5 15			75	Ar	Miller	10	7 09	No438	1 35	
		10 50	2 13	57		*Forest City	1665	6 55	Pass.	1 15	
		11 30	2 26	63		Thompson	431	6 27		12 35	
		12 35	2 49	73		Buffalo Center	701	6 05	A.M.	11 55	
		1 10	3 09	82		Germania	331	5 45	b11 20	11 25	b10 00
		2 10	3 25	90		Gerled			11 07		† 9 40
		† 2 25	3 34	95		Swea City	373		10 56		9 20
		2 55	3 45	101		Armstrong	706		10 40		8 40
		4 01	4 01	110		Maple Hill	15		10 27		8 00
		4 35	4 15	116		Gruver			10 16		7 40
		5 00	4 25	122		*Estherville	3650		10 00		7 20
		5 25	4 40	129	Ar						

Muscatine to Montezuma.

TABLE 184

GOING WEST.					Miles	STATIONS. U. S. Express Co. April 18, 1909	GOING EAST				
	No 83 Frt.	No401 Pass.					No402 Pass	No 82 Frt.			
	A.M.	A.M.					P.M.	P.M.			
	b 7 30	b 8 15				Population Lv27 Muscatine 15087Ar	b 7 10	c 4 30			
	† 7 55	8 35		8		Bayfield	6 52	† 3 15			
	† 8 10	† 8 45		13		Adams	6 42	† 2 55			
	8 57	8 57		16		* Nichols	6 35	2 45			
						Lone Tree	6 16	1 45			
	10 00	9 10		23		River Junction	6 07	† 1 00			
	† 10 15	9 16		26		* Iowa Junction	6 02	12 55			
	10 22	9 20		28		Riverside	5 57	12 50			
	11 15	9 33		31		Kalona	5 39	11 55			
	11 55	9 49		37		Wellman	5 22	11 15			
	1 05	10 06		45		Nira	5 07	† 10 35			
	† 1 25	10 16		49		Kinross	5 00	10 23			
	1 40	10 23		53		South English	4 48	9 55			
	2 05	10 35		58		* Webster	4 37	9 30			
	2 25	10 45		63		Keswick	4 27	9 15			
	2 45	10 55		67		* Thornburg	4 15	8 50			
	3 15	11 06		72	ar	* What Cheer	4 00	8 30			
						* Thornburg	3 48	8 00			
	3 35	11 18		77	ar	Gibson	3 37	7 40			
	4 25	11 35		72		Barnes City	3 27	7 25			
	4 45	11 45		76		* Montezuma	3 10	7 00			
	5 05	11 55		80							
	5 30	12 15		88	ar						

Wilton Branch.

TABLE 185

GOING WEST.					Miles	U. S. Express Co. April 18, 1909	GOING EAST.				
	No501	No503	No505				Pop.	No500	No502	No504	
	P.M.	P.M.	A.M.					A.M.	P.M.	A.M.	
	b12 05	b 5 00	b 7 30			lv	1139	b10 45	b 3 50	b 7 10	
	12 20	5 15	7 45	5		Summit		10 30	3 37	6 45	
	12 35	5 30	8 00	12	ar	Muscatine	15089	10 15	3 20	6 25	

GRAND HOTEL J. G. DERMEDY, Proprietor MUSCATINE, IOWA

Modern. Steam heat. Sample Rooms. In the heart of the city, one block from the depot, banks and opera houses. RATES \$2.00 and \$2.50.

